PROJECTED DEFENSE PURCHASES: DETAIL BY INDUSTRY AND STATE

Calendar Years 1998 through 2003



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FOREWORD

Projected Defense Purchases: Detail by Industry and State is issued by the Office of the Secretary of Defense (OSD). The estimates presented in the report are produced by the Economic and Manpower Analysis Division, Office of the Director for Program Analysis and Evaluation, Office of the Secretary of Defense.

The report provides projections of direct and indirect (defense-related) purchases from 50 major manufacturing industries, and estimates of direct and indirect defense spending in each state and the District of Columbia. An introduction presents a brief overview of the definitions, budgetary concepts, and expenditure categories used in developing the estimates, and offers some guidelines for interpreting them. The tabular material is divided into three sections:

Section I: Summary Tables – Industry Expenditures and Employment, Individual States and Entire United States

Section II: Projections for Selected Industries

Section III: Individual State Projections

Descriptions of table formats accompany the projections.

Additional copies of this report may be obtained on the PA&E public access website homepage, http://www.ra.pae.osd.mil/depps. A feedback form for comments is at the end of the report.

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Reader's Note

With the 1996 edition of *Projected Defense Purchases: Detail by Industry and State*, the Department of Defense inaugurated a new version of the input-output model used to estimate defense and defense-related expenditures. The revisions to the model affect the estimates for specific industries, in large part because the industry definitions have changed as described below. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM). It replaces the previous 429-industry model, which was maintained by DRI/McGraw-Hill. Because fewer industries are represented in the new model, the definitions of some industries have changed. (The differences are greatest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections. This change also affects the definition of industries, particularly the electronics industry.

Both of these modifications affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. The 1987 industrial classification system contains more detail on electronics sectors; it therefore is now possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which research and development purchases are made can now be better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), such funding is now allocated to research laboratory, engineering, and architectural services industries.

The restructuring was so substantial that the input-output model has been renamed. The model is now called the Defense Employment and Purchases Projection System, or DEPPS. The projections presented in this report should not be compared with estimates published in earlier editions, for states or for industries.

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INTRODUCTION AND HIGHLIGHTS

This report presents estimates of defense purchases during calendar years 1998-2003 from 50 industries that are major defense suppliers. The report also provides projections of defense-related employment and of defense and defense-related spending for each of the 50 states and the District of Columbia during 1998-2003. The estimates are based on the President's budget submission of February 1997, and on the geographic distribution of the major components of defense spending in the recent past. A description of the model and data used to generate the estimates may found in supporting documentation.¹

The figures reported here are projections; they do not necessarily reflect what actual defense expenditures will be in various industries or states in future years. Purchases from particular industries will depend upon the size and composition of the defense budget enacted by the Congress; the location of purchases will be determined not only by the level of defense spending, but also by the location of industries and by competition among firms within industries, both for prime contracts and for subcontracts.² The projections therefore serve as benchmarks: they describe the future pattern of defense and defense-related expenditures, assuming that each state's shares of the various components of defense activity remain as they were in the recent past.

The input-output model used to produce the projections was completely rebuilt in 1996, and the definitions of industries for which projections are reported have changed. (The new projections divide the economy into 320 industries, rather than the 429 industries employed in the previous model.) The restructured model produces more accurate and useful projections; the changes are significant enough to render comparisons with projections made before 1996 inappropriate, for states as well as industries.

Definitions and Coverage

The estimates presented in the following sections consider both "direct" and "indirect" defense expenditures. Direct defense expenditures are those that the Department of Defense

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The Directorate for Information Operations and Reports in the Washington Headquarters Services publishes comprehensive data on prime contract awards and personnel expenditures, by state, in a volume entitled *Atlas/State Data Abstract for the United States*. The edition covering fiscal year 1997 is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, and at http://web1.whs.osd.mil/mmid/pubs.htm.

(DoD) itself makes. Examples include purchases of goods and services, as well as military and civilian pay.

Indirect (or defense-related) expenditures, by contrast, represent purchases — generated throughout the economy — of items used to produce goods bought by DoD. That is, indirect expenditures reflect the costs of materials, tools, and parts that prime contractors buy from suppliers in order to perform work for which DoD has contracted. Those sales, in turn, trigger subsequent rounds of transactions, as subcontractors purchase goods and services from their major suppliers and those firms place orders with companies at lower tiers of the production chain. The term "indirect defense purchases" applies to this sequence of purchases — of goods and services from subcontractors and lower-tier suppliers.

"Indirect defense purchases resulting from direct pay," shown in the state-level tables in Section III, refer to the production of goods and services consumed by DoD's civilian and military employees. Estimates of these expenditures are included in the statewide tables because the concept has been of interest to planning agencies and others concerned with local economic development. The methods used to generate these estimates are viewed as experimental, however, and are still under development. Indirect defense purchases resulting from direct pay are *not* included in the industry estimates reported in Section II.

The employment estimates include DoD civilian employment and employment resulting from direct and indirect DoD purchases of goods and services. Employment generated by indirect purchases resulting from direct pay (i.e., by personal consumption expenditures) is *not* included in the estimates.

Budget Concept Employed. The DEPPS projections are expressed in terms of outlays. Outlays represent disbursements of funds made during the course of a year. In contrast, budget authority is the amount of money that Congress authorizes DoD to obligate in any given year. Budget authority differs from outlays in that contractual obligations (which must be within the limits set by budget authority) often call for payments to be spread over a period of years, as work is completed. (Budget authority for RDT&E and procurement projects, in particular, tends to be disbursed over several years.) Thus, during periods of budget growth, budget authority tends to exceed outlays in any given year.

Coverage. The federal budget is divided into a number of sections (called "functional categories"), each containing programs serving a common purpose. National security-related programs are grouped into Functional Category 050 (National Defense). This category includes all of the Defense Department's military programs plus national security programs administered by other federal departments, such as the Department of Energy. It excludes nonmilitary programs managed by the Department of Defense (for example, highway bridge inspection projects conducted by the Army Corps of Engineers).

The DEPPS projections are based on a narrower budget grouping, Functional Category 051 (Department of Defense, Military). This category *includes* all of the Defense Department's military programs, but *excludes* national security programs administered by other agencies and

DoD programs serving civil functions (principally public works projects of the U.S. Army Corps of Engineers). The projections also include disbursements of military retirement pay.

The defense budget (defined here to include only those programs falling within Functional Category 051) is partitioned into five major accounts: military personnel; operations and maintenance (O&M); procurement; research, development, test, and evaluation (RDT&E); and military construction. The titles of these accounts are reasonably descriptive of the types of expenses they cover:

- The *military personnel* account covers the pay of active-duty service members and reservists as well as some other personnel-related expenses, such as permanent change-of-station travel and purchases of military uniforms. Also included in this account is DoD's share of the government's annual payments into the Military Retirement Fund (see below).
- The O&M account funds the day-to-day operations of the defense establishment. Money from this account goes to purchase fuel and other consumable items and to pay all but a small share of DoD's civilian work force.
- The *procurement* account covers purchases of weapons and equipment, and other military capital goods.
- The *RDT&E* account pays for the development and testing of new military systems, and for other research activities and associated civilian pay.
- The *military construction* account covers the cost of constructing military facilities and of providing housing for military personnel and their dependents.

The DEPPS projections include disbursements of military retirement pay from the Military Retirement Fund (Functional Category 602 in the *Budget of the United States Government*). This trust fund receives payments from the military personnel account of the defense budget (i.e., from Functional Category 051) as well as from the general fund of the federal budget; the balance in the Military Retirement Fund is invested in U.S. government securities and earns interest. Annual disbursements from the Military Retirement Fund are currently larger than DoD's annual payments into it.

The DEPPS projections include all outlays from the DoD military personnel account except payments into the Military Retirement Fund. Military pay and annuity payments to military retirees have different geographical pattePrns; accordingly, the projections use two different, historically-based distribution rules — one for military pay and one for retirement pay. Because the DEPPS projections include disbursements of retirement pay, the summations across states of direct defense purchases slightly exceed outlays from Category 051.

Highlights of the Projections

The composition of projected defense purchases is quite different from the composition of purchases in the nondefense economy. Figure 1 presents information on the composition of projected defense and nondefense final purchases in 1999, excluding salaries. A large proportion of defense purchases — 56 percent — are made from manufacturing industries. In contrast, only about 34 percent of nondefense final purchases are made from the manufacturing sector of the economy. Services constitute about 39 percent of defense final purchases, but about 60 percent of nondefense final purchases. (These are non-labor purchases; if DoD personnel costs are included, the share of purchases from manufacturing industries is roughly equal to the economywide share.)

Figure 2 presents information on the composition of estimated defense and nondefense indirect purchases — the sales of tools, materials, and supplies used as intermediate goods in the production process. Indirect defense purchases more nearly resemble their nondefense counterparts than do direct defense purchases; manufacturing accounts for about 41 percent of projected defense indirect purchases, and for about 39 percent of projected nondefense indirect purchases. Services account for half of projected defense and nondefense indirect purchases.

The first table in Section I of this report lists the 50 manufacturing industries with the largest (direct plus indirect) projected defense production. While some of these industries are armaments or defense-oriented (shipbuilding, tanks and tank components, aircraft, and guided missiles, for example), a significant share of defense purchases are made directly or indirectly from industries not so obviously oriented toward defense activities (e.g., electronics, blast furnaces and steel mills, motor vehicle parts, industrial controls, and telephone and telegraph equipment).

Defense-Related Employment. Defense-related civilian employment (including the civilian work force of the Department of Defense) represents about 1.8 percent of projected total U.S. civilian employment in 1999. The composition of defense-related civilian employment (in 1999) differs somewhat from that of nondefense employment. The differences reflect the manufacturing intensity of defense purchases, as well as specific employment patterns of the individual industries from which defense purchases are made.

Occupations primarily associated with manufacturing industries (e.g., precision production, craft, and repair) account for a large share of defense-related employment, while service and agricultural workers account for a large proportion of nondefense employment (see Figure 3). Engineering workers also account for a somewhat larger share of defense-related employment (7 percent) than they do of nondefense employment (1 percent). More detailed tabulations of defense-related employment (including engineering and scientific personnel, by specialty) are provided in Section I.

Defense Expenditures by State. Table 1 presents estimates of direct, indirect, and total (direct plus indirect) per capita defense expenditures in 1999 for each of the nine U.S. census divisions and for the United States as a whole. For each region and each expenditure category,

the table provides both an estimate for the census region and a range of estimates corresponding to the upper and lower bounds of the projections for the *individual states* within the region.

The geographic distribution of defense expenditures reflects both the distribution of military personnel and DoD civilian employees, and that of the industries that make defense goods. While New England, for example, ranks seventh among the nine census regions in defense pay per capita, it ranks third in total projected defense purchases and third in total projected direct expenditures.

The dispersion within regions is large relative to the dispersion across regions. For example:

- Six of the nine regions contain one or more states in which total projected defense expenditures (direct and indirect) exceed the national average.
- All nine regions contain at least one state in which total projected defense expenditures are less than 60 percent of the national average, and at least one state in which total projected defense expenditures are greater than 60 percent of the national average. At the same time, seven regions contain at least one state in which total projected defense expenditures are less than 50 percent of the national average, and seven regions contain at least one state in which total projected defense expenditures are greater than 90 percent of the national average.

The DEPPS projections describe the pattern of defense and defense-related expenditures, assuming that the geographic distribution of the various components of defense activity remains what it has been in recent years. The actual course of completion of defense contracts may produce a future geographic pattern that differs from historical distributions.

Total Defense Expenditures. Table 2 displays expenditures from the entire DoD budget by major account, as well as procurement expenditures for major categories of weapon systems. The sum of expenditures each year is the total of DoD's outlays for the calendar year.

Limitations of the Projections

The projections of defense purchases presented in Section I comprise direct and indirect purchases from various industries. They attempt to include all defense purchases, whether or not the purchases are made domestically.

By contrast, the state-level projections include *only* purchases and pay estimated to be made in the 50 states and the District of Columbia. They exclude expenditures made abroad or in U.S. territories, the pay of military personnel stationed on ships in foreign waters, and expenditures for imported goods. In order to factor out such expenditures, historical data showing the distribution of military personnel are used and an assumption is made about the level of defense imports. Specifically, it is assumed that, for the products of any given industry,

imports constitute the same share of defense purchases as they do of civilian purchases. Because the Defense Department is required to channel most of its purchases to domestic firms, and because defense purchases often represent specialized products, the percentage of defense purchases accounted for by imports may be lower than this assumption suggests. To the extent that this is the case, the projections will underestimate the proportion of defense expenditures occurring in the United States.

Comparisons With Previous Estimates

The input-output model used to generate estimates for this report has been rebuilt since the document was last issued. The revisions to the model affect results for specific industries. In particular:

- The input-output model now includes 320 industries and is maintained by Interindustry Forecasting at the University of Maryland (INFORUM). It replaces a 429-industry model that was maintained by DRI/McGraw-Hill, which was used before 1996. Because fewer industries are represented in the new model, the definitions of some industries have changed. (The differences are greatest in the agriculture and service sectors.)
- The model now reflects the standard industrial classification (SIC) system promulgated by the Office of Management and Budget in 1987, rather than the 1982 SIC system, which underlay previous projections.

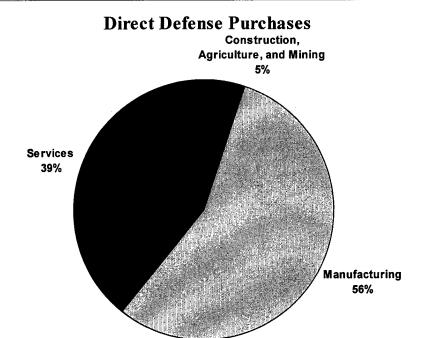
Both of these changes affect projections for individual industries. For example, one of the largest industrial sectors in the earlier projections was the Radio and Television Communications Equipment sector, which included electronic sensors used in many defense applications. The 1987 industrial classification system contains more detail on electronics sectors; it therefore is possible to break out purchases of sensors from the remainder of radio and television communications equipment, and to produce projections for this individual industry.

In addition, the industries from which R&D purchases are made now are better identified. Whereas funding for bench research and basic exploration was formerly allocated to the major weapons-producing sectors (e.g., aircraft, missiles, radio and TV equipment, etc.), such funding is now allocated to the research laboratory, engineering, and architectural services industries.

Given the significance of these changes, the DEPPS projections should not be compared with estimates published in earlier editions of this report, for states or for industries.

Figure 1.

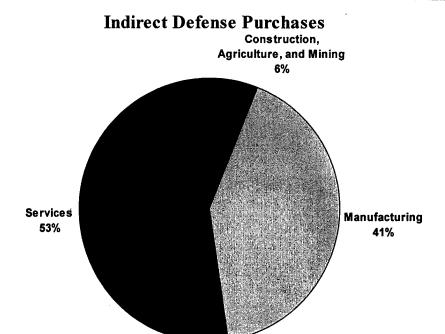
Composition of Defense and Non-Defense Purchases for 1999



Direct Nondefense Purchases Construction, Agriculture, and Mining 6% Manufacturing 34%

Figure 2.

Composition of Defense and Non-Defense Purchases for 1999



Indirect Nondefense Purchases

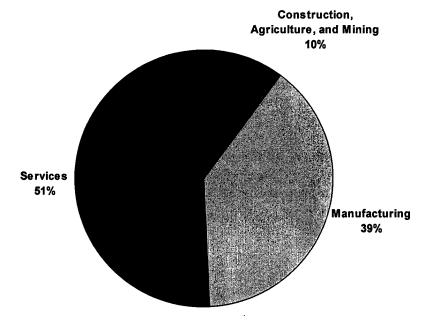
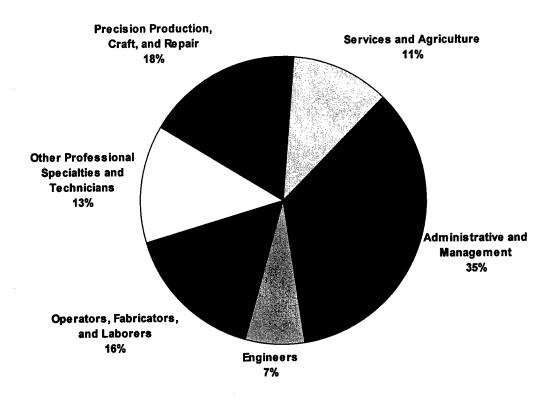


Figure 3.

Composition of Civilian Employment for 1999

Defense-Related Employment



Nondefense-Related Employment

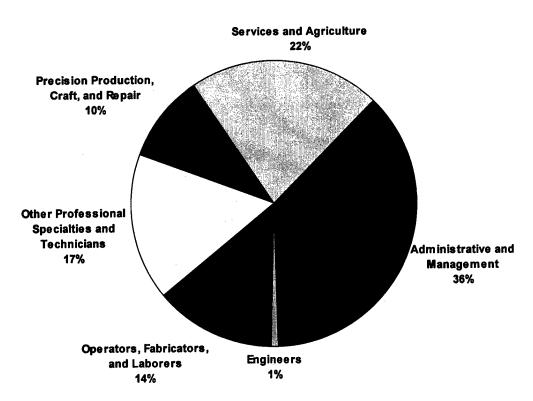


Table 1. Estimated Defense Expenditures Per Capita, 1999 (By region, in 1999 dollars)

		Direct		_	
Region	Pay	Purchases	Total	Indirect	Total
New England	301	891	1192	797	1988
	(164 - 524)	(145 - 1510)	(314 - 2014)	(554 - 1425)	(918 - 2668)
Mid-Atlantic	182	385	567	555	1122
	(106 - 228)	(308 - 516)	(437 - 728)	(464 - 629)	(900 - 1357)
South Atlantic	945	963	1908	988	2896
	(153 - 2793)	(77 - 3527)	(231 - 6320)	(467 - 2427)	(697 - 8748)
East North Central	168	257	425	548	973
	(91 - 254)	(101 - 440)	(193 - 580)	(452 - 635)	(680 - 1215)
West North Central	364	428	792	967	1759
	(95 - 714)	(190 - 828)	(287 - 1176)	(403 - 2985)	(689 - 3973)
East South Central	455	556	1011	636	1647
	(221 - 583)	(229 - 1048)	(559 - 1582)	(519 - 788)	(1078 - 2156)
West South Central	471	397	867	745	1612
	(320 - 744)	(178 - 595)	(498 - 1024)	(517 - 884)	(1015 - 1894)
Mountain	490	379	869	694	1563
	(296 - 728)	(107 - 1022)	(402 - 1622)	(462 - 852)	(923 - 2414)
Pacific	996	887	1882	936	2818
	(168 - 2121)	(57 - 2276)	(225 - 3770)	(484 - 1358)	(709 - 5128)
United States	526	602	1129	796	1925
	(91 - 2793)	(57 - 3527)	(193 - 6320)	(403 - 2985)	(680 - 8748)

NOTES: The numbers in parentheses reflect the lower and upper bounds of the estimates for individual states in the regions.

> New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont Mid-Atlantic: New Jersey, New York, Pennsylvania

South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina,

South Carolina, Virginia, West Virginia

East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin

West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota

East South Central: Alabama, Kentucky, Mississippi, Tennessee
West South Central: Arkansas, Louisiana, Oklahoma, Texas
Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming

Pacific: Alaska, California, Hawaii, Oregon, Washington

Table 2a.
Sources of Projected Direct Defense Purchases
Department of Defense
Rounded to Millions of 1999 dollars

	1998	1999	2000	2001	2002	2003
Military Personnel Operations & Maintenance *	71,115	70,182 92,441	69,092 91,733	65,398 91,183	66,394 88,927	66,416 93,524
Aircraft Missiles	14,590 3,039	15,482	16,246 2,837	17,029	18,193	19,498
Weapons and Tracked Vehicles Ships and Conversions	<i>1,493</i> 7,755	1,390 7,556	<i>1,403</i> 7,492	1,444 7,566	1,517	1,625 7,215
Ammunition Other	292 17,336	290 18,051	282 18,765	272 19,422	272 20,472	21,767
Total Procurement	44,506	45,540	47,025	48,968	51,412	54,347
RDT&E Military Construction Family Housing	36,119 5,484 3,942	35,232 4,942 3.749	33,386 4,439 3.681	31,969 4,221 3,697	31,398 3,866 3,665	31,320 3,633 3,680
Direct Defense Purchases	255,474	252,086	249,357	245,436	245,663	252,920

^{*} Includes net funds appropriated to revolving and management funds.

Table 2b.

Sources of Projected Indirect Defense Purchases

Department of Defense

Rounded to Millions of 1999 dollars

	1998	1999	2000	2001	2002	2003
Military Personnel	10,000	9,765	9,903	6,228	8,033	8,239
Operations & Maintenance *	48,314	47,901	48,486	48,328	46,421	51,845
Aircraft	10,774	11,691	12,345	12,878	13,732	14,717
Missiles	1,833	1,684	1,778	2,105	2,453	2,729
Weapons and Tracked Vehicles	999	219	970	637	899	724
Ships and Conversions	5,170	5,025	4,981	5,029	4,846	4,766
Ammunition	251	246	237	220	220	231
Other	15,565	16,490	17,363	18,176	19,343	20,732
Total Procurement	34,258	35,753	37,323	39,046	41,261	43,900
RDT&E	29,409	29,069	27,842	26,888	26,695	26,928
Military Construction	3,985	3,591	3,127	2,836	2,163	2,003
Family Housing	1,648	1,570	1,547	1,573	1,560	1,586
Total Indirect Defense Purchases	127,614	127,650	128,228	124,899	126,132	134,502

^{*} Includes net funds appropriated to revolving and management funds.

SECTION I: SUMMARY TABLES – Industry Expenditures and Employment, Individual States and Entire United States

The summary tables provide an overview of estimated defense expenditures and employment. The first table presents estimates of total defense purchases from the 50 manufacturing industries leading in defense production in 1999. The estimates shown include both direct and indirect purchases. The second table presents estimates of defense-related employment by major occupational category, while the third table provides more detailed estimates of defense-related employment of engineers and scientists.

The remaining five tables present state-level information:

- The first three state-level tables present estimates of *direct* defense expenditures, first in the aggregate and then for selected budget accounts. The first table shows outlays (for purchases and pay) projected to be made in each state during each year of the forecast period. (The estimates assume that state shares of the underlying components of pay and purchases remain at recent levels.) The next two tables present statewide estimates by budget category; the first shows outlays arising from the procurement and RDT&E accounts, while the second displays outlays resulting from the remaining accounts.
- The last two state-level tables present estimates of *indirect* defense expenditures. The first table shows indirect expenditures arising from purchases made by the Department of Defense; the second shows indirect expenditures arising from the wages and salaries of DoD personnel and from military retirement pay.

Projected Defense Purchases from Fifty Manufacturing Industries Leading in Defense Production in 1999

Rounded to Millions of 1999 Dollars

Ind #	Supplying Industry	1998	1999	2000	2001	2002	2003
		10,062	10,353	10,659	11,085	11,664	12,308
235					10,322	10,468	10,801
237	Aircraft ad Missile Parts and Auxiliary Equipment, n.e.c.	10,008	10,301	10,324		8,194	8,323
21	Guided Missiles and Space Vehicles	8,786	8,466	8,214	8,153		7,865
238	Shipbuilding and Repairing	8,199	8,069	8,004	8,088	7,910	
	Radio and TV Broadcasting and Communication Equipment	7,857	7,810	7,669	7,655	7,761	7,995
110	Petroleum Refining, Except Fuel Oil	7,453	7,383	7,289	6,638	5,983	7,425
236		6,786	6,862	6,734	6,632	6,697	6,877
246	Search and Navigation Equipment	3,490	3,608	3,634	3,649	3,739	3,894
198	Electronic Computers	3,531	3,491	3,448	3,420	3,342	3,449
111		3,447	3,402	3,339	2,981	2,637	3,347
222	Semiconductors and Related Devices	3,226	3,373	3,512	3,651	3,821	4,136
22	Ammunition, Except Small Arms	3,252	3,173	3,451	3,604	3,762	3,997
223	Electronic Components, n.e.c.	2,922	2,904	2,929	2,941	2,974	3,103
118	Miscellaneous Plastic Products	1,933	1,949	1,984	1,982	_2,020	2,170
133	Steel Mills, Blast Furnaces, and Rolling and Finishing Mills	1,767	1,720	1,716	1,715	1,708	1,744
95	Industrial Inorganic Chemicals	1,571	1,650	1,648	1,613	1,613	1,702
249	Surgical and Medical Instruments	1,479	1,533	1,516	1,397	1,436	1,508
174	Industrial Trucks, Tractors, Trailers, and Stackers	1,363	1,459	1,471	1,459	1,470	1,557
248	Measuring Devices and Environmental Controls	1,273	1,349	1,355	1,343	1,360	1,413
90	Commercial Printing	1,182	1,180	1,180	1,155	1,156	1,227
151	T	1,204	1,151	1,134	1,159	1,117	1,061
142		1,053	1,051	1,058	1,075	1,109	1,156
23	Tanks and Tank Components	1,033	1,003	1,043	1,116	1,216	1,333
96	Industrial Organic Chemicals	993	986	984	959	962	1,020
59	Apparel	1,014	983	971	704	821	838
234	Motor Vehicle Parts and Accessories	811	905	1,069	1,203	1,315	1,446
25	Small Arms Ammunition	818	881	918	960	1,053	1,156
199		838	838	834	833	819	848
233		809	818	857	930	1,006	1,090
210	Motors and Generators	731	750	759	759	775	804
141	Aluminum Rolling and Drawing Products	724	716	723	732	746	781
	Pipes, Valves, and Pipe Fittings	635	641	654	654	661	701
	Plastics Materials and Resins	639	640	644	636	646	685
	Electrical Machinery, Equipment and Supplies, n.e.c.	614	612	599	5 96	600	611
78	Paper Mills, Including Building Paper	617	610	604	583	579	612
177	Special Dies, Jigs, Molds, and Cutting Tools	613	576	618	634	653	688
253	Laboratory and Optical Instruments	558	567	576	587	599	617
	Newspaper Publishing and Printing	585	564	551	526	519	532
197	• • • • • • • • • • • • • • • • • • • •	549	551	573	581	599	634
159	Metal Plating, Polishing, and Coating	541	547	561	572	590	624
153		532	535	549	560	576	610
	Hardware, n.e.c.	530	527	529	536	551	577
164		538	522	542	546	550	588
53	Broadwoven Fabric Mills	531	517	512	444	474	506
61	Miscellaneous Fabricated Textile Products	497	494	495	460	455	520
		481	486	489	492	505	527
145	Steam, Gas, and Hydraulic Turbines	419	478	583	675	750	819
165		469	466	465	450	448	486
81	Paperboard Containers and Boxes	450	459	465	466	475	500
255	Photographic Equipment and Supplies	445	444	446	453	456	466
150	Fabricated Structural Metal Products	443	777	770	755	-150	,,,,

Projected Defense and Defense-Related Civilian Employment by Occupational Category

Rounded to Thousands of Workers

Occupational Category	1998	1999	2000	2001	2002	2003
Managerial and Administrative	129	126	124	119	119	123
Management Support	156	152	147	142	140	141
Engineers	173	168	163	159	157	157
Scientists	242	238	233	229	228	. 232
Technicians and Related Support	104	101	66	96	94	96
Marketing and Sales	116	114	113	108	109	113
Administrative Support (including Clerical)	510	495	478	458	452	458
Service	265	260	253	239	241	246
Agriculture, Forestry, Fishing and Related	20	20	19	18	17	19
Precision Production, Craft, and Repair	466	453	441	428	424	427
Operators, Fabricators, and Laborers	415	404	397	373	376	383
Total All Categories:	2,595	2,531	2,466	2,368	2,358	2,395

Projected Defense and Defense-Related Civilian Employment of Engineers and Scientists

Rounded to Thousands of Workers

Occupational Category	1998	1999	2000	2001	2002	2003	
Aeronautical and astronautical engineers	17.3	16.9	16.3	15.9	15.7	15.6	
Chemical engineers	2.8	2.7	2.6	2.6	2.5	2.5	
Civil engineers, including traffic engineers	21.5	20.9	20.0	19.5	19.1	18.9	
Electrical and electronics engineers	8.99	65.1	63.0	61.5	8.09	60.7	
Industrial engineers, except safety engineers	11.7	11.5	11.2	11.0	11.0	11.1	
Mechanical engineers	33.3	32.3	31.2	30.4	29.9	29.8	
Metallurgists and metallurgical, ceramic, and materials engineers	1.3	1.3	1.2	1.2	1.2	1.2	
All other engineers	17.8	17.5	17.2	17.0	16.9	17.2	
Total Engineers	172.5	168.2	162.8	159.0	157.1	157.1	
Architects and surveyors	3.5	3.4	3.3	3.2	3.1	3.1	
Life scientists	1.9	1.9	1.8	1.7	1.7	1.7	
Computer systems analysts, engineers, and scientists	103.8	103.6	102.3	101.8	102.4	104.6	
Mathematicians and other mathematical scientists	3.5	3.3	3.2	3.1	3.1	3.0	
Operations research analysts	8.2	7.9	7.6	7.4	7.2	7.2	
Chemists	5.2	5.0	4.8	4.7	4.6	4.6	
Geologists, geophysicists, and oceanographers	1:1	1.1	1.0	1.0	1.0	1.0	
Physicists and astronomers	9.0	0.5	0.5	0.5	0.5	0.5	
All other physical scientists	5.6	5.4	5.2	5.0	4.9	4.9	
Social scientists	4.3	4.2	4.0	3.9	3.8	3.8	
Total Scientists	137.5	136.3	133.7	132.2	132.3	134.3	
Total Engineers and Scientists:	310	304	297	291	289	291	

Projections of Total Direct Expenditures, by State Rounded to Millions of 1999 dollars

State	1998	1999	2000	2001	2002	2003	
Alabama	5,338	5,259	5,171	5,011	5,024	5,092	
Alaska	2,468	2,424	2,412	2,237	2,312	2,400	
Arizona	4,539	4,541	4,546	4,574	4,632	4,746	
Arkansas	1,310	1,294	1,282	1,245	1,248	1,272	
California	42,528	42,265	41,964	41,696	41,759	43,353	
Colorado	6,742	6,625	6,434	6,309	6,281	6,357	
Connecticut	4,175	4,079	4,104	4,127	4,209	4,369	
Delaware	827	837	828	805	809	828	
District of Columbia	3,397	3,344	3,298	3,190	3,164	3,298	
Florida	14,939	14,817	14,670	14,532	14,578	14,834	
Georgia	10,494	10,313	10,123	9,943	9,918	10,044	
Hawaii	3,629	3,572	3,509	3,452	3,432	3,474	
Idaho	536	527	518	511	502	506	
Illinois	4,228	4,161	4,126	4,019	4,011	4,123	
Indiana	2,838	2,809	2,811	2,793	2,786	2,906	
Iowa	839	828	820	2,795 815	2,780 817	2,900 834	
Kansas	2,199	2,164	2,138	2,111	2,078	2,117	
Kentucky	2,867	2,825	2,138 2,780	2,730	2,078 2,701		
Louisiana	4,193	4,128	4,080	4,002	3,900	2,743	
Maine	2,585	2,527	2,520	2,532	2,526	4,102	
Maryland	9,448	9,326	2,320 9,211	2,332 9,086	9,083	2,547 9,303	
Massachusetts	7,794	7,757	7,653	7,604	7,673	9,303 7,903	
Michigan	5,123	5,171	5,369	5,556	5,758	6,079	
Minnesota	2,516	2,522	2,561	2,594	2,633	2,757	
Mississippi	4,499	4,417	4,375	4,325	4,321	4,399	
Missouri	6,474	6,461	6,440	6,473	6,565	6,767	
Montana	436	431	426	420	415	425	
Nebraska	1,176	1,163	1,145	1,134	1,113	1,145	
Nevada	1,169	1,155	1,143	1,134	1,113		
New Hampshire	793	784	775	769	768	1,137 78 5	
New Jersey	6,011	5,917	5,847	5,635	5,724	5,942	
New Mexico	2,353	2,320	2,277	2,241	2,212	2,253	
New York	7,984	7,924	7,871	7,728	7,781	2,233 8,026	
North Carolina	6,413	6,323	6,226	6,125	6,112		
North Dakota	706	697	689	685	689	6,165 698	
Ohio	6,662	6,544	6,536	6,479	6,494	6,722	
Oklahoma	3,430	3,388	3,342	3,305	3,285		
Oregon	763	752	742	736	732	3,345 737	
Pennsylvania	6,640	6,521	6,448	6,349	6,283	6,459	
Rhode Island	1,655	1,668	1,645	1,611			
South Carolina	4,082	4,026	3,980	3,816	1,609 3,845	1,650 3,912	
South Dakota	755	758	3,980 847	3,816 854	3,643 815	3,912 852	
Tennessee	3,172	3,118	3,089	2,862	2,923	832 2,974	
Texas	20,515	20,324	20,130	2,862 19,767	2,923 19,666	2,974 20,462	
Utah	2,002	1,956	1,919	1,887	1,872		
Vermont	192	1,936	1,919	1,887	1,872	1,926 198	
Vermont Virginia	24,883	24,456	24,092	23,421		23,799	
Washington	7,221	7,128	7,018	6,901	23,427	-	
West Virginia	433	7,128 424	7,018 417	409	6,851	7,044	
West Virginia Wisconsin					409	414	
Wyoming	1,078 351	1,018	1,045	1,030	1,016	1,054	
		348	343	338	332	345	
U.S. Total	267,400	264,326	261,929	258,099	258,416	265,623	

Projections of Total Direct Procurement and RDT&E Expenditures, by State

Rounded to Millions of 1999 dollars

Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Hawaii	1,269 350 1,520 107 17,479 3,413 2,320 290 241 4,295 3,939	1,251 341 1,563 106 17,594 3,336 2,362 307 233 4,308	1,209 352 1,597 106 17,591 3,190 2,404 304	1,179 371 1,644 106 17,771 3,095 2,470	1,172 396 1,721 109 18,263 3,093	1,182 422 1,812 113 18,961	
Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia	350 1,520 107 17,479 3,413 2,320 290 241 4,295 3,939	341 1,563 106 17,594 3,336 2,362 307 233	352 1,597 106 17,591 3,190 2,404 304	371 1,644 106 17,771 3,095	396 1,721 109 18,263	1,812 113 18,961	
Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia	107 17,479 3,413 2,320 290 241 4,295 3,939	106 17,594 3,336 2,362 307 233	106 17,591 3,190 2,404 304	106 17,771 3,095	109 18,263	113 18,961	
California Colorado Connecticut Delaware District of Columbia Florida Georgia	17,479 3,413 2,320 290 241 4,295 3,939	17,594 3,336 2,362 307 233	17,591 3,190 2,404 304	106 17,771 3,095	18,263	18,961	
Colorado Connecticut Delaware District of Columbia Florida Georgia	3,413 2,320 290 241 4,295 3,939	3,336 2,362 307 233	3,190 2,404 304	3,095			
Connecticut Delaware District of Columbia Plorida Georgia	3,413 2,320 290 241 4,295 3,939	3,336 2,362 307 233	3,190 2,404 304	3,095	3,093	2 124	
Connecticut Delaware District of Columbia Plorida Georgia	2,320 290 241 4,295 3,939	2,362 307 233	2,404 304			3,134	
Delaware District of Columbia Florida Georgia	290 241 4,295 3,939	307 233	304		2,560	2,678	
District of Columbia Florida Georgia	241 4,295 3,939	233	224	296	300	312	
Florida Georgia	3,939	4,308	224	217	215	215	
Georgia	3,939		4,264	4,264	4,364	4,521	
=		3,884	3,761	3,695	3,720	3,793	
	107	101	98	96	96	97	
daho	18	18	17	17	17	17	
llinois	604	617	622	628	647	672	
ndiana	618	634	656	680	713	749	
owa	347	352	347	344	350	362	
Kansas	137	137	138	141	145	151	
Kentucky	68	65	65	66	67	69	
ouisiana	1,283	1,261	1,263	1,289	1,282	1,296	
Maine	1,753	1,710	1,713	1,757	1,744	1,759	
Maryland	2,433	2,428	2,396	2,387	2,428	2,500	
Massachusetts	5,346	5,355	5,270	5,247	5,341	5,504	
Michigan	2,714	2,847	3,056	3,269	3,512	3,763	
Minnesota	1,281	1,326	1,360	1,401	1,467	1,545	
Mississippi	1,892	1,849	1,851	1,898	1,895	1,919	
Missouri	3,603	3,646	3,662	3,714	3,834	3,994	
Montana	7	7	7	6	6	7	
Nebraska	37	35	35	34	35	36	
Nevada	36	36	35	34	34	34	
New Hampshire	251	251	246	242	245	251	
New Jersey	2,059	2,033	2,010	2,017	2,076	2,162	
New Mexico	406	398	382	370	365	367	
New York	3,727	3,779	3,761	3,771	3,870	4,018	
North Carolina	404	400	389	380	380	387	
North Dakota	73	71	73	76	81	86	
Ohio	2,068	2,081	2,111	2,164	2,260	2,380	
Oklahoma	200	198	199	202	207	214	
Oregon	73	72	71	70	69	69	
Pennsylvania	1,926	1,952	1,943	1,949	1,997	2,067	
Chode Island	761	794	788	777	791	823	
South Carolina	295	296	299	305	314	326	
South Dakota	19	18	18	18	18	19	
Tennessee	425	417	399	386	381	382	
emessee Texas	4,936	4,940	4,885	4,890	4,999	5,167	
Jtah	383	369	358	352	356	366	
Vermont	60	62	62	64	66	69	
remont Virginia	3,617	3,513	3,435	3,407	3,404	3,451	
_	1,310	1,291	1,262	1,250	1,270	1,306	
Washington West Virginia	21	20	20	1,230	1,270	20	
Wisconsin	101	102	104	108	112	117	
Wisconsin Wyoming	5	5	4	4	4	4	
U.S. Total	80,624	80,772	80,411	80,937	82,810	85,667	

Projections of Total Direct Expenditures Excluding Procurement and RDT&E, by State Rounded to Millions of 1999 dollars

State	1998	1999	2000	2001	2002	2003	
Alabama	4,070	4,008	3,962	3,832	3,853	3,910	
Alaska	2,118	2,083	2,061	1,866	1,916	1,977	
Arizona	3,019	2,977	2,948	2,930	2,910	2,934	
Arkansas	1,203	1,188	1,177	1,139	1,139	1,160	
California	25,049	24,671	24,373	23,925	23,496	24,392	
Colorado	3,329	3,289	3,244	3,214	3,187	3,223	
Connecticut	1,855	1,717	1,700	1,657	1,650	1,691	
Delaware	537	529	525	509	509	517	
District of Columbia	3,156	3,111	3,074	2,972	2,949	3,083	
Florida	10,644	10,509	10,407	10,267	10,213	10,314	
Georgia	6,555	6,430	6,362	6,247	6,198	6,252	
Hawaii	3,522	3,471	3,411	3,355	3,336	3,377	
Idaho	518	510	501	494	485	489	
Illinois	3,623	3,544	3,504	3,391	3,365	3,450	
Indiana	2,221	2,175	2,155	2,112	2,073	2,156	
Iowa	492	477	473	471	466	472	
Kansas	2,062	2,027	2,000	1,971	1,932	1,966	
Kentucky	2,800	2,759	2,714	2,664	2,634	2,675	
Louisiana	2,911	2,867	2,817	2,712	2,619	2,807	
Maine	832	817	807	775	782	788	
Maryland	7,015	6,898	6,815	6,699	6,655	6,802	
Massachusetts	2,447	2,402	2,383	2,357	2,332	2,398	
Michigan	2,409	2,324	2,312	2,287	2,332	2,336	
Minnesota	1,235	1,196	1,201	1,193	1,167	1,212	
Mississippi	2,607	2,568	2,524	2,427	2,426	2,480	
Missouri	2,872	2,815	2,779	2,758	2,731	2,774	
Montana	428	425	420	413	409	419	
Nebraska	1,139	1,128	1,111	1,100	1,078	1,109	
Nevada	1,133	1,119	1,108	1,102	1,097	1,102	
New Hampshire	542	533	529	527	523	534	
New Jersey	3,952	3,883	3,836	3,618	3,648	3,780	
New Mexico	1,948	1,922	1,895	1,871	1,847	1,887	
New York	4,257	4,145	4,110	3,957	3,911	4,008	
North Carolina	6,010	5,923	5,836	5,745	5,732	5,778	
North Dakota	633	626	617	609	608	612	
Ohio	4,594	4,462	4,426	4,315	4,234	4,341	
Oklahoma	3,230	3,190	3,144	3,104	3,078	3,130	
Oregon ·	690	680	671	666	663	667	
Pennsylvania	4,714	4,569	4,505	4,400	4,286	4,391	
Rhode Island	894	874	857	834	818	827	
South Carolina	3,787	3,730	3,681	3,512	3,532	3,587	
South Dakota	736	740	829	836	797	833	
Tennessee	2,748	2,702	2,690	2,476	2,542	2,592	
Texas	15,579	15,384	15,245	14,877	14,667	15,296	
Utah	1,619	1,587	1,561	1,536	1,516	1,560	
Vermont	132	130	129	129	128	129	
Virginia	21,265	20,943	20,657	20,014	20,023	20,348	
Washington	5,911	5,837	5,756	5,650	5,581	5,738	
West Virginia	412	404	397	389	390	3,736	
Wisconsin	978	916	941	923	904	937	
Wyoming	346	343	339	333	327	340	
U.S. Total	186,776	183,554	181,519	177,162	175,606	179,956	

Projections of Indirect Defense Purchases Resulting from Direct Purchases, by State Rounded to Millions of 1999 dollars

State	1998	1999	2000	2001	2002	2003	·
Alabama	2,300	2,301	2,302	2,244	2,264	2,382	
Alaska	500	495	492	471	462	507	
Arizona	1,939	1,963	1,983	1,965	2,004	2,117	
Arkansas	851	852	859	836	843	900	
California	15,786	15,814	15,824	15,442	15,581	16,514	
Colorado	1,947	1,944	1,942	1,892	1,900	2,018	
Connecticut	4,277	4,083	3,866	3,662	3,770	3,940	
Delaware	309	309	.311	301	303	326	
District of Columbia	700	691	683	666	676	712	
Florida	4,654	4,686	4,729	4,629	4,710	5,005	
Georgia	3,102	3,109	3,117	3,029	3,076	3,260	
Hawaii	505	502	503	490	497	527	
Idaho	466	471	476	468	472	502	
Illinois	4,576	4,543	4,546	4,404	4,436	4,718	
Indiana	2,622	2,615	2,631	2,581	2,603	2,749	
Iowa	754	750	755	736	745	793	
Kansas	1,304	1,309	1,312	1,265	1,264	1,356	
Kentucky	1,607	1,608	1,619	1,586	1,593	1,703	
Louisiana	2,300	2,293	2,282	2,130	2,042	2,318	
Maine	355	359	359	344	343	360	
Maryland	3,187	3,186	3,191	3,125	3,162	3,337	
Massachusetts	4,445	4,453	4,455	4,369	4,440	4,669	
Michigan	3,043	3,055	3,090	3,033	3,070	3,247	
Minnesota	1,990	1,990	2,000	1,951	1,968	2,090	
Mississippi	927	930	932	895	890	956	
Missouri	2,842	2,844	2,851	2,780	2,809	2,939	
Montana	223	222	222	213	213	231	
Nebraska	599	595	598	583	588	626	
Nevada	414	414	417	407	413	438	
New Hampshire	474	475	478	472	481	508	
New Jersey	3,683	3,677	3,706	3,632	3,702	3,965	
New Mexico	930	940	946	922	922	994	
New York	5,933	5,915	5,936	5,782	5,862	6,195	
North Carolina	2,700	2,701	2,723	2,641	2,697	2,862	
North Dakota	216	215	215	206	205	222	
Ohio	5,059	5,045	5,067	4,960	4,999	5,290	
Oklahoma	1,857	1,852	1,856	1,775	1,749	1,930	
	1,047	1,061	1,077	1,064	1,087	1,160	
Oregon Pennsylvania	4,832	4,809	4,826	4,699	4,735	5,023	
Rhode Island	443	445	452	448	459	489	
South Carolina	1,500	1,496	1,503	1,461	1,489	1,579	
South Dakota	1,826	2,111	2,435	2,499	2,356	2,567	
	1,909	1,914	1,923	1,864	1,888	1,991	
Tennessee	11,609	11,635	11,663	11,220	11,141	12,202	
Texas	1,052	1,055	1,055	1,032	1,044	1,106	
Utah Varmont	1,032 251	256	262	262	268	285	
Vermont	6,692	6,710	6,745	6,495	6,647	7,011	
Virginia Washington			0,743 2,989	2,922	2,941	3,097	
Washington	2,928	2,976 591	2,969 593	2,922 579	580	617	
West Virginia	594			379 1,777	1,796	1,899	
Wisconsin	1,811	1,807	1,819	257	1,796 248	280	
Wyoming	276	274	273	431	240	200	
U.S. Total	126,147	126,347	126,888	123,464	124,433	132,512	

Projections of Indirect Defense Purchases Resulting from Direct Pay, by State Rounded to Millions of 1999 dollars

Arkansas California	508 7,935	493 7,730	482 7,577	479 7,556	474 7,509	472 7,503	
Colorado	1,323	1,289	1,264	1,259	1,250	1,248	
Connecticut	611	594	580	576	571	568	
Delaware	214	208	204	204	203	202	
District of Columbia	611	593	581	578	574	572	
Florida	4,523	4,420	4,345	4,343	4,327	4,333	
Georgia	2,474	2,415	2,374	2,372	2,362	2,364	
Hawaii	1,078	1,051	1,033	1,030	1,025	1,025	
Idaho	254	248	244	244	244	244	
Illinois	2,166	2,106	2,057	2,048	2,032	2,026	
Indiana	1,084	1,061	1,043	1,043	1,041	1,043	
Iowa	425	413	402	399	395	393	
Kansas	691	672	658	655	651	650	
Kentucky	1,047	1,020	1,001	998	993	993	
Louisiana	958	933	914	912	906	904	
Maine	344	336	330	330	329	330	
Maryland	1,840	1,793	1,761	1,758	1,750	1,751	
Massachusetts	1,101	1,069	1,043	1,036	1,025	1,019	
Michigan	1,346	1,311	1,281	1,274	1,260	1,253	
Minnesota	794	778	766	768	768	772	
Mississippi	693	673	659	656	651	649	
Missouri	1,268	1,235	1,210	1,207	1,200	1,200	
Montana	215	209	205	204	202	201	
Nebraska	467	455	446	444	442	442	
Nevada	770	759	747	746	743	745	
New Hampshire	238	232	227	226	225	224	
New Jersey	1,482	1,441	1,407	1,399	1,388	1,384	
New Mexico	631	615	604	602	600	601	
New York	2,580	2,499	2,428	2,403	2,370	2,349	
North Carolina	2,392	2,334	2,295	2,294	2,288	2,293	
North Dakota	249	242	238	237	236	236	
Ohio	2,177	2,117	2,070	2,059	2,042	2,036	
Oklahoma	1,145	1,114	1,093	1,090	1,083	1,082	
Oregon	574	559	548	547	544	544	
Pennsylvania	2,212	2,155	2,108	2,100	2,085	2,081	
Rhode Island	277	270	265	264	263	263	
South Carolina	1,240	1,209	1,187	1,186	1,181	1,182	
South Dakota	183	178	175	174	173	173	
Tennessee	1,004	981	962	961	955	956	
Texas	5,265	5,132	5,038	5,027	5,000	5,001	
Utah	574	559	548	547	544	543	
Vermont	115	113	111	110	110	110	
Virginia	5,055	4,924	4,839	4,833	4,812	4,816	
Washington	2,029	1,979	1,944	1,941	1,931	1,932	
West Virginia	275	267	261	259	257	256	
Wisconsin	784	767	754	754	751	751	
Wyoming	151	147	145	144	143	143	
U.S. Total	68,223	66,476	65,176	65,000	64,612	64,566	

SECTION II: PROJECTIONS FOR SELECTED INDUSTRIES

The tables in this section show projected defense and defense-related purchases from the 50 manufacturing industries expected to lead in defense production in calendar year 1999. A separate table is provided for each industry.

The upper portion of each table provides projections of direct and indirect defense purchases for calendar years 1998 through 2003. The lower portion of the table shows the indirect defense purchases estimated to result from DoD purchases from each of eleven industrial groupings.

The model produces projections for 320 industries; estimates for 50 of these industries are presented in this report. Those industries are grouped into 85 sectors in the state-level tables presented in Section III. Thus, industrial sector 44, "Aerospace," appearing in the state-level tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and Missile Engines, Propulsion Units, and Parts"; industry 237, "Aircraft and Missile Parts and Auxiliary Equipment, n.e.c."; and industry 21, "Guided Missiles and Space Vehicles." A crosswalk between the industries cited in Section II and the industrial sectors addressed in Section III is provided in the appendix. (The appendix also contains a crosswalk to four-digit SIC codes.)

In addition, tables showing sources of defense purchases are provided for the 10 industries leading in defense production in 1999.

			Aircraft	Aircraft				
		Round	led to Millions	Rounded to Millions of 1999 Dollars	Į.			
		1998	1999	2000	2001	2002	2003	
		SUMMAI	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	NSES			
Direct Purchases		10,003	10,291	10,598	11,023	11,601	12,243	
Indirect Purchases		00	70	20 20	70	20 11	12.200	
	10021	10,001	20,01) () ()				
	IIADII	INDIRECT DEFENSI	E PURCHASE	FENSE PURCHASES BY PURCHASING SECTOR	LASING SECT	OR		
Aircraft Enoines			1	1	1	_	2	
Aircraft Parts		35	36	36	36	37	38	
Ammunition		0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	
Z. Missiles		'n	5	5	5	\$	5	
		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		18	19	19	19	20	20	
	Total:	09	62	62	62	63	65	

		Sources of	Sources of Projected Defense Purchases	Defense Pur	chases			Ind 235
			Aircraft	aft				
		Roune	Rounded to Millions of 1999 dollars	of 1999 dollar	S			
		1998	1999	2000	2001	2002	2003	
Military Personnel		0	0	0	0	0	0	
Operations & Maintenance *		873	872	898	885	882	891	
·Aircraft		6,480	6,827	7,278	7,788	8,362	8,949	
Missiles		55	48	48	53	56	58	
Weapons and Tracked Vehicles		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	
Other		93	96	86	101	104	106	
Total Procurement		6,629	6,971	7,424	7,942	8,522	9,114	
RDT&E		2,553	2,503	2,361	2,252	2,254	2,297	
Military Construction		7	9	5	5	5	4	
Family Housing		_	1	-	-	-	, 1	
	Total:	10,062	10,353	10,659	11,085	11,664	12.308	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Projec	ted Defense	Projected Defense Purchases of	of			Ind 237
	Aircra	Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.	Parts and	fissile Parts and Auxiliary Equanded to Millions of 1999 Dollars	quipment, n s	.e.c.		
		1998	1999	2000	2001	2002	2003	
		SUMMAR	XY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		7,816	8,036	8,109	8,200	8,448	8,847	
Indirect Purchases		2,271	2,287	2,238	2,172	2,202	2,260	
	Total:	10,087	10,324	10,347	10,372	10,650	11,107	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		354	356	348	344	347	359	
Ammunition			1	1	-	-		
Communication Equipment		1	2	2	7	7	2	
Missiles		1,213	1,188	1,169	1,166	1,180	1,207	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		1	1	1	_	-	1	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		701	740	717	657	0.29	069	:
	Total:	2,271	2,287	2,238	2,172	2,202	2,260	

Sourd Aircraft and M	Sources of Pand Missile P	rojected Doarts and A	ces of Projected Defense Purchases Aissile Parts and Auxiliary Equipmo Rounded to Millions of 1999 dollars	rces of Projected Defense Purchases Missile Parts and Auxiliary Equipment, n.e.c. Rounded to Millions of 1999 dollars	j		Ind 237
	1998	6661	2000	2001	2002	2003	
1, (1);							

Military Personnel		18	17	18	12	15	16
Operations & Maintenance *		2,176	2,166	2,192	2,245	2,228	2,290
Aircraft		3,462	3,724	3,822	3,844	4,070	4,344
Missiles		284	257	569	315	359	394
Weapons and Tracked Vehicles		25	23	24	24	26	27
Shipbuilding		18	15	15	13	13	14
Ammunition		0	0	0	0	0	0
Other		1,297	1,373	1,398	1,406	1,448	1,521
Total Procurement		5,086	5,393	5,528	5,602	5,916	6,301
RDT&E		2,700	2,649	2,519	2,422	2,399	2,412
Military Construction		80	73	99	29	89	65
Family Housing		27	25	23	24	24	24
	Total:	10,087	10,324	10,347	10,372	10,650	11,107

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

			3					Ind 21
		Projec	Projected Defense Purchases of	Furchases o	-			
		Guided 1	Guided Missiles and Space Vehicles	Space Vehi	cles			
		Round	Rounded to Millions of 1999 Dollars	f 1999 Dollars				
		1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		8,515	8,203	7,958	7,899	7,939	8,064	
Indirect Purchases		271	263	257	254	255	259	
	Total:	8,786	8,466	8,214	8,153	8,194	8,323	
	INDIRECT DE	CT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	S BY PURCH.	ASING SECT	ЛR		
Aircraft Engines		-	-	1	1	_	1	
Aircraft Parts		13	14	14	14	14	14	
Amminition		0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	
Missiles 2		255	247	240	238	238	242	
Motor Vehicles		0	0	0	0	0	0	
Shinbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Foundant		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		2	2	2	2	2	2	
	Total:	271	263	257	254	255	259	

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Sources of Projected Defense Purchases Guided Missiles and Space Vehicles

Rounded to Millions of 1999 dollars

		1998	1999	2000	2001	2002	2003	
Military Personnel			_	-		-		
Operations & Maintenance *		623	529	909	618	603	809	
Aircraft		65	19	62	99	73	80	
Missiles		1,276	1,150	1,153	1,279	1,397	1,493	
Weapons and Tracked Vehicles		0	0	0	0	0	0	
Shipbuilding		27	23	22	61	17	61	
Ammunition		0	0	0	0	0	0	
Other		1,377	1,414	1,400	1,402	1,423	1,476	
Total Procurement		2,746	2,647	2,637	2,766	2,911	3,067	
RDT&E		5,413	5,256	4,967	4,766	4,676	4,644	
Military Construction		2	1	1	1	-	-	
Family Housing		2		1	-	1	1	
	Total:	8,786	8,466	8,214	8,153	8,194	8,323	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Project Shipl	ted Defense building and	Projected Defense Purchases of Shipbuilding and Repairing	Į.			Ind 238
		Rounde	ed to Millions o	Rounded to Millions of 1999 Dollars				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		8,336	8,133	8,090	8,256	8,180	8,228	
Indirect Purchases		42	42	41	37	39	39	
	Total:	8,379	8,174	8,131	8,293	8,219	8,267	
	HQNI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	
ω Missiles		0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		42	42	41	37	38	39	
	Total:	42	42	41	37	39	39	

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Sources of Projected Defense Purchases Shipbuilding and Repairing Rounded to Millions of 1999 dollars

		1998	1999	2000	2001	2002	2003	, , , , , , , , , , , , , , , , , , ,
Military Personnel		10	10	10	9	∞		
Operations & Maintenance *		857	848	814	807	801	800	
Aircraft		176	101	123	201	304	397	
Missiles		I	I	I	I	I	I	
Weapons and Tracked Vehicles		4	4	4	4	4	4	
Shipbuilding		7,116	666'9	6,980	7,083	806'9	6,858	
Ammunition		0	0	0	0	0	0	
Other		2	2	2	<i>c</i> 0	ω	4	
Total Procurement		7,299	7,107	7,110	7,292	7,221	7,264	
RDT&E		191	189	179	170	171	176	
Wilitary Construction		∞	7	7	7	7	∞	
Family Housing		14	13	12	12	12	11	
	Total:	8,379	8,174	8,131	8,293	8,219	8,267	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Rounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar	Rounded to Millions of 1999 Dollars			
		8661	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		886'9	6,975	6,850	6,809	6,859	7,026	
Indirect Purchases		883	872	826	856	905	696	
	Total:	7,871	7,846	7,707	7,665	7,761	7,995	
		INDINECT DEFENSE FONCTIONES BY FONCTIONING SECTOR	FUNCTIASE		ASHING SECT		c	
Aircraft Engines		>	>		>	>	>	
Aircraft Parts		2	2	ĸ	m	ю	n	
Ammunition		0	0	0	0	0	0	
Communication Equipment		270	229	213	239	285	334	
Missiles		511	503	497	497	505	518	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		15	15	15	15	15	15	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		1		passed .	1	1	-	
Other Ordinances		0	0	0	0	0	0	
		60	121	127	00	03	5	

Total:

Sources of Projected Defense Purchases	Ind 220
Radio and TV Broadcasting and Communication Equipment	
Rounded to Millions of 1999 dollars	

		1998	1999	2000	2001	2002	2003	
Military Personnel				-			_	
Operations & Maintenance *		2,146	2,103	2,125	2,170	2,159	2,199	
Aircraft		513	553	573	260	578	613	
Missiles		95	87	06	104	118	130	
Weapons and Tracked Vehicles		0	0	0	0	0	0	
Shipbuilding		12	II	12	12	11	II	
Ammunition		0	0	0	0	0	0	
Other	, manada and	2,405	2,459	2,422	2,438	2,537	2,671	
Total Procurement		3,024	3,111	3,097	3,114	3,245	3,426	
RDT&E		2,675	2,609	2,464	2,362	2,342	2,356	
Military Construction		20	18	16	14	11	10	
Family Housing		4	4	4	4	4	4	
	Total:	7,871	7,846	7,707	7,665	7,761	7,995	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

			Projecte Petroleum Rounded	Projected Defense Purchases of Petroleum Refining, Except Fuel Oil Rounded to Millions of 1999 Dollars	Purchases o. Xcept Fuel 1999 Dollars	f. Oil			Ind 110
			1998	1999	2000	2001	2002	2003	
			SUMMARY	SUMMARY OF DEFENSE PURCHASES	E PURCHAS	ES			
Dire	Direct Purchases		3,172	3,142	3,095	2,831	2,450	3,196	
Indi	Indirect Purchases		4,281	4,241	4,194	3,807	3,534	4,229	
		Total:	7,453	7,383	7,289	6,638	5,983	7,425	
Airc	Aircraft Enoines	INDIRECT	r defense p 36	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR 36 35 34	BY PURCHA	SING SECTO)R 34	35	
Aire	Aircraft Parts		48	20	50	20	51	53	
Am	Ammunition		47	47	51	53	26	09	
Co	Communication Equipment		65	99	99	<i>L</i> 9	69	72	
35 Mis	Missiles		27	27	56	79	27	28	
	Motor Vehicles		15	16	18	20	22	24	
Shij	Shipbuilding		<i>L</i> 9	65	65	65	49	63	
Tanks	ıks		5	9	9	7	∞	∞	
Oth	Other Electronic Equipment		9	9	9	9	9	9	
Oth	Other Ordinances		2	2	7	m	ĸ	ĸ	
Other	er		3,963	3,920	3,868	3,475	3,194	3,875	
		Total:	4,281	4,241	4,194	3,807	3,534	4,229	

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Rounded to Millions of 1999 dollars

		1998	1999	2000	2001	2002	2003
Military Personnel Operations & Maintenance *		769	746	751 5,212	4,925	602 4,336	614 5,755
Aircraft Missiles		113	121	128	135	144	155 19
Weapons and Tracked Vehicles Shipbuilding		52	6 50	6 50	50	, o &	7 47
Ammunition Other		361	329	351	2 373	2 400	£ \$4
Total Procurement		548	520	550	581	617	859
RDT&E		288	284	272	262	259	260
Military Construction Family Housing		659	590 20	485 19	381	150	118
	Total:	7,453	7,383	7,289	6,638	5,983	7,425

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Projec	Projected Defense Purchases of	Purchases (Ţ			Ind 236
	Aircr	Aircraft and Missile Engines, Propulsion Units and Parts Rounded to Millions of 1999 Dollars	Missile Engines, Propulsion Ul Rounded to Millions of 1999 Dollars	'ropulsion U	nits and Pa	rts		
		1998	1999	2000	2001	2002	2003	
		SUMMAF	SUMMARY OF DEFENSE PURCHASES	ASE PURCHA	SES			
Direct Purchases		3,976	3,954	3,820	3,738	3,734	3,816	
Indirect Purchases		2,810	2,908	2,914	2,894	2,963	3,061	
	Total:	6,786	6,862	6,734	6,632	6,697	6,877	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE:	S BY PURCH	ASING SECT	OR		
Aircraft Engines		747	744	719	705	902	723	
Aircraft Parts		<i>L</i> 9	71	72	74	92	80	
Ammunition		es.	3	æ	3	4	4	
Communication Equipment		9	7	7	7	∞	∞	
2. Missiles		523	216	511	513	522	536	
Motor Vehicles		1	1	_	2	2	2	
Shipbuilding		2	2	2	2	7	3	
Tanks		1	, -	1	_	1		
Other Electronic Equipment		0	0	0	0	0	1	
Other Ordinances		0	0	0	0	0	0	
Other		1,458	1,563	1,596	1,586	1,643	1,703	
	Total:	2,810	2,908	2,914	2,894	2,963	3,061	

Sources of Projected Defense Purchases	Ind 236
Aircraft and Missile Engines, Propulsion Units and Parts	
Rounded to Millions of 1999 dollars	

	8661	1999	2000	2001	2002	2003
Military Personnel	98	85	87	56	73	76
Operations & Maintenance *	543	544	551	561	555	586
Aircraft	1,321	1,522	1,602	1,633	1,655	1,716
Missiles	318	284	295	339	375	400
Weapons and Tracked Vehicles	I	I	I	I	I	I
Shipbuilding	7	5	5	s	4	4
Ammunition	0	0	0	0	0	0
Other	190	199	203	208	216	228
Total Procurement	1,837	2,011	2,106	2,186	2,251	2,350
RDT&E	4,298	4,202	3,971	3,812	3,804	3,852
Military Construction	19	18	16	14	11	10
Family Housing	3	3	3	3	3	3

Direct plus indirect purchases.

6,877

6,697

6,632

6,734

6,862

982,9

Total:

* Includes net funds appropriated to revolving and management funds.

		Projec	Projected Defense Purchases of	Purchases (ĵ.			Ind 246
		Search : Round	Search and Navigation Equipment Rounded to Millions of 1999 Dollars	ion Equipm of 1999 Dollar	ent			
		1998	1999	2000	2001	2002	2003	
		SUMMAI	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES			
Direct Purchases	·	3,358	3,469	3,495	3,511	3,600	3,752 142	
IIIUII CCI FUI CIIASCS	Total:	3,490	3,608	3,634	3,649	3,739	3,894	
	ÎNDÎR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		7	7	7	7	7	7	
Aircraft Parts		_	1		1	_		
Ammunition		0	0	0	0	0	0	
Communication Equipment		9	9	9	9	7	7	
& Missiles		7	7	9	9	9	7	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		∞	∞	∞	∞	∞	∞	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0 .	0	
Other		103	110	110	110	111	113	
	Total:	132	139	139	138	140	142	

Rounded to Millions of 1999 dollars

		1998	1999	2000	2001	2002	2003	
Military Personnel					0			
Operations & Maintenance *		803	962	781	786	782	790	
Aircraft		557	586	865	865	209	626	
Missiles		133	123	123	139	154	165	
Weapons and Tracked Vehicles		25	23	23	24	25	27	
Shipbuilding		14	13	13	12	12	12	
Ammunition		0	0	0	0	0	0	
Other		1,145	1,270	1,342	1,368	1,439	1,540	
Total Procurement		1,874	2,015	2,099	2,141	2,236	2,370	
RDT&E		793	611	737	704	704	717	
A Military Construction		13	12	11	11	11	11	
Family Housing		7	9	5	. 5	5	5	
	Total:	3,490	3,608	3,634	3,649	3,739	3,894	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Projec	ted Defense	Projected Defense Purchases of	Į			Ind 198
		a	Electronic Computers	mputers				
		Rounde	ed to Millions o	Rounded to Millions of 1999 Dollars				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	X OF DEFER	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		2,900	2,865	2,831	2,808	2,742	2,830	
Indirect Purchases		631	625	617	612	009	618	
	Total:	3,531	3,491	3,448	3,420	3,342	3,449	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		1	-	-		1	1	
Aircraft Parts		_	1	1	1	7	2	
Ammunition			-		1			
Communication Equipment		92	93	93	93	94	86	
Missiles		4	4	4	4	4	4	
Motor Vehicles		0	0	0	0	0	0	
		-	-		1			
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	1	
Other Ordinances		0	0	0	0	0	0	
Other		530	523	515	510	496	511	
	Total:	631	625	617	612	009	618	

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Sources of Projected Defense Purchases Electronic Computers

Rounded to Millions of 1999 dollars

	1998	1999	2000	2001	2002	2003	
Military Personnel	_				-		
Operations & Maintenance *	2,194	2,168	2,169	2,190	2,150	2,255	
Aircraft	79	79	28	77	75	77	
Missiles	91	15	17	22	26	30	
Weapons and Tracked Vehicles	0	0	0	0	I	I	
Shipbuilding	2	7	2	2	2	7	
Ammunition	80	∞	7	9	9	9	
Other	268	282	293	292	301	319	
Total Procurement	375	386	397	399	410	436	
RDT&E	893	874	827	784	748	727	
Military Construction	99	50	42	35	21	19	
Family Housing	13	12	11	11	11	11	

Direct plus indirect purchases.

3,449

3,342

3,420

3,448

3,491

3,531

Total:

* Includes net funds appropriated to revolving and management funds.

		Projec	rojected Defense Purchases of	Purchases)f			Ind 111
		•	Fuel Oil	ï				
		Rounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar	S			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES			
Direct Purchases		2,628	2,603	2,549	2,305	1,958	2,597	
Indirect Purchases		818	466	790	675	619	750	
	Total:	3,447	3,402	3,339	2,981	2,637	3,347	
		INDIRECT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	S BY PURCH	ASING SECT	OR		
Aircraft Engines		11	10	10	10	10	10	
Aircraft Parts		12	12	12	12	12	13	
Ammunition		11	11	11	12	12	13	
Communication Equipment		16	16	16	16	16	17	
Missiles		7	9	9	9	9	9	
Motor Vehicles		4	5	5	9	9	7	
Shipbuilding		18	18	17	17	17	16	
Tanks		2	7	2	2	2	2	
Other Electronic Equipment		7	-	-	1		2	
Other Ordinances		_	-		-	1	1	
Other		736	718	408	593	295	664	
	Total:	818	799	790	675	619	750	

		1998	1999	2000	2001	2002	2003	
Military Personnel Operations & Maintenance *		412 2,510	397	399	244 2,373	316 2,071	321 2,786	
Aircraft Missiles		31	33	34	35	38	40	
Weapons and Tracked Vehicles		2	2 2	2	2	7	, 7	
Shipbuilding Ammunition		91 1	16 I	15 1	15 1	14 1	14	
Other		69	20	53	55	58	62	
Total Procurement		123	104	108	112	117	123	
RDT&E		99	4	61	58	57	57	
Military Construction		331	296	242	189	72	56	
Family Housing		5	5	5	5	5	5	
	Total:	3,447	3,402	3,339	2,981	2,637	3,347	

Direct plus indirect purchases.

* Includes net funds appropriated to revolving and management funds.

		Project	Projected Defense Purchases of	Purchases 0	ıf			Ind 222
		Semicond	Semiconductors and Related Devices	Related Dev	rices			
		Rounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar:	S			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		33	33	32	31	31	33	
Indirect Purchases		3,193	3,340	3,480	3,619	3,790	4,104	
	Total:	3,226	3,373	3,512	3,651	3,821	4,136	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH.	ASING SECT	OR		
Aircraft Engines		24	26	26	27	29	31	
Aircraft Parts		165	180	190	200	212	229	
Ammunition		230	236	269	295	322	357	
Communication Equipment		1,126	1,188	1,233	1,291	1,373	1,481	
Wissiles 4		149	153	159	166	176	188	
Motor Vehicles		24	26	30	35	40	46	
Shipbuilding		31	32	34	36	37	39	
Tanks		2	2	2	2	3	3	
Other Electronic Equipment		61	59	64	<i>L</i> 9	70	9/	
Other Ordinances		11	11	12	14	15	17	
Other		1,371	1,427	1,461	1,486	1,514	1,637	
	Total:	3,193	3,340	3,480	3,619	3,790	4,104	

	·	Projec Ammu	ited Defense nition, Exce ed to Millions	Projected Defense Purchases of Ammunition, Except Small Arms Rounded to Millions of 1999 Dollars	of ms			Ind 22
		1998	1999	2000	2001	2002	2003	
		SUMMAE	EY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		3,068	2,994	3,256	3,400	3,548	3,771	
Indirect Purchases		185	180	196	205	214	227	
	Total:	3,253	3,174	3,452	3,605	3,762	3,998	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECT	OR		
Ammunition		184	180	196	204	213	227	
Other		0	0	0	0	0	0	

Total:

		Projec	Projected Defense Purchases of	Purchases (Į			Ind 223
		Electr Rounde	Electronic Components, n.e.c. Rounded to Millions of 1999 Dollars	onents, n.e.c	• 70			
		1998	1999	2000	2001	2002	2003	
		SUMMAE	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		473	434	451	450	441	459	
Indirect Purchases		2,448	2,470	2,478	2,491	2,533	2,644	
	Total:	2,922	2,904	2,929	2,941	2,974	3,103	
						á		
	INDIN	INDINECT DEFENSE FONCHASES BY FONCHASING SECTOR 17 17 17 17 17	, ronchase, 17	3 D1 FUNCIL	17 17 17 17 17 17 17 17 17 17 17 17 17 1	17	~	
Ancian Engines			170	181	183	186	101	
Aucraft Parts		7/1	119	101	103	100	124	
Ammunition		93	91	100	106	112	120	
Communication Equipment		1,313	1,330	1,327	1,336	1,369	1,425	
Wissiles 7		306	299	295	294	298	305	
Motor Vehicles		5	9	7	∞	∞	6	
Shipbuilding		11	11	111	12	11	12	
Tanks		0	0	0	-	1		
Other Electronic Equipment		50	46	48	46	48	50	
Other Ordinances		1	1		-	1	-	
Other		480	489	490	486	481	208	
	Total:	2,448	2,470	2,478	2,491	2,533	2,644	

Mark Control of the C								
		Projec	ted Defense	Projected Defense Purchases of	Jo			Ind 118
		Misce	llaneous Pla	Miscellaneous Plastic Products	ţs			
		Round	ed to Millions	Rounded to Millions of 1999 Dollars	Ş			
		1998	1999	2000	2001	2002	2003	
		SUMMAI	EX OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		40	38	38	37	37	40	
Indirect Purchases		1,894	1,911	1,946	1,945	1,984	2,130	
	Total:	1,933	1,949	1,984	1,982	2,020	2,170	
	INDIRI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECT	J.R		
Aircraft Engines		29	29	28	28	28	29	
Aircraft Parts		53	55	26	57	59	62	
Ammunition		53	54	59	62	<i>L</i> 9	73	
Communication Equipment		168	173	176	181	188	199	
Missiles		84	83	82	83	85	87	
Motor Vehicles		20	54	61	69	92	84	
Shipbuilding		42	42	42	43	42	43	
Tanks		7	∞	∞	6	10	11	
Other Electronic Equipment		64	59	62	63	62	65	
Other Ordinances		2	2	2	2	2	2	
Other		1,343	1,353	1,369	1,348	1,364	1,473	
	Total:	1,894	1,911	1,946	1,945	1,984	2,130	

		Steel Mills	Projecte, Blast Furn	Projected Defense Purchases of ast Furnaces, and Rolling and F Rounded to Millions of 1999 Dollars	Ourchases o	Projected Defense Purchases of Steel Mills, Blast Furnaces, and Rolling and Finishing Mills Rounded to Millions of 1999 Dollars	Ells		Ind 133
			1998	1999	2000	2001	2002	2003	
			SUMMARY	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	ES			
	Direct Purchases		19	18	18	18	17	19	
	Indirect Purchases		1,748	1,702	1,698	1,698	1,692	1,725	
		Total:	1,767	1,720	1,716	1,715	1,708	1,744	
		INDIRECT	T DEFENSE I	URCHASES	BY PURCHA	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR)R		
	Aircraft Engines		51	49	47	45	44	44	
	Aircraft Parts		99	99	9	64	63	64	
	Ammunition		124	120	127	130	134	140	
	Communication Equipment		118	117	115	113	114	116	
49	Missiles		24	23	22	22	22	22	
•	Motor Vehicles		61	99	75	84	91	86	
	Shipbuilding		483	464	450	447	430	419	
	Tanks		22	23	23	25	28	30	
	Other Electronic Equipment		\$	5	2	5	5	5	
	Other Ordinances		10	10		111	111	11	
	Other		782	757	758	752	751	775	
		Total:	1,748	1,702	1,698	1,698	1,692	1,725	

			٠,						
			Frojec	Projected Detense Purchases of	Furchases	ĭ			G6 pul
			Indust	Industrial Inorganic Chemicals	ic Chemica	S			
			Round	Rounded to Millions of 1999 Dollars	of 1999 Dollar				
			1998	1999	2000	2001	2002	2003	
			SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
	Direct Purchases		964	1,027	1,029	1,011	1,017	1,070	
	Indirect Purchases		909	622	619	602	296	632	
		Total:	1,571	1,650	1,648	1,613	1,613	1,702	
		INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	SING SECT	æ		
	Aircraft Engines		4	4	4	4	4	4	
	Aircraft Parts		7	7	7	7	7	7	
	Ammunition		9	9	7	7	7	&	
	Communication Equipment		14	14	14	14	14	15	
50	Missiles		4	4	4	4	4	4	
	Motor Vehicles		4	4	\$	S	9	9	
	Shipbuilding		20	19	18	18	17	17	
	Tanks		1	1	_	_	-	_	
	Other Electronic Equipment		7	2	2	7	2	2	
	Other Ordinances		0	0	0	0	0	0	
	Other		543	260	557	540	534	695	
		Total:	909	622	619	602	596	632	

		Projec	Projected Defense Purchases of	Purchases (Je			Ind 249
		Surgical	Surgical and Medical Instruments	al Instrume	nts			
		Rounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar	S			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	VSE PURCHA	SES			
Direct Purchases		1,462	1,516	1,500	1,383	1,424	1,493	
Indirect Purchases		23	23	23	21	20	23	
	Total:	1,485	1,540	1,523	1,404	1,444	1,517	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		23	23	23	21	19	23	
	Total:	23	23	23	21	20	23	

		Projec	ted Defense	Projected Defense Purchases of	Jo			174 Ind 174
	In	Industrial Trucks, Tractors, Trailers, and Stackers Rounded to Millions of 1999 Dollars	set to Millions of	Trucks, Tractors, Trailers, an Rounded to Millions of 1999 Dollars	nd Stackers s			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		1,266	1,355	1,367	1,355	1,365	1,446	
Indirect Purchases		103	109	110	109	110	116	
	Total:	1,369	1,464	1,476	1,464	1,475	1,563	
	INDI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	OR		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		1	-	-	1			
Ammunition		0	0		1	-	1	
Communication Equipment		1	1	1	1	_	-	
Missiles		0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		1		_	_		_	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		66	105	106	105	106	112	
	Total:	103	109	110	109	110	116	

		Dunion	had Defense	Designated Defense Durchases of	وب			Ind 248
	W	Measuring Devices and Environmental Controls	ices and En	ı urchases v vironmenta	Controls			
		Rounde	d to Millions o	Rounded to Millions of 1999 Dollars	•			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		894	950	954	943	955	995	
Indirect Purchases		380	398	400	400	405	418	
	Total:	1,273	1,349	1,355	1,343	1,360	1,413	
			A HOURING			S		
	INDINECT DE	CI DEFENSE	ronchase.	S BI FUNCIL	O O		01	
Aircraft Engines		10	10	οι			10	
Aircraft Parts		က	m	m	e.	m	33	
Ammunition		7	7	2	2	7	2	
Communication Equipment		5	5	5	5	5	5	
Missiles		2	2	2	7	7	2	
Motor Vehicles		6	6	6	10	11	12	
Shipbuilding		∞	∞	∞	∞	∞	∞	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		340	359	361	359	363	374	
	Total:	380	398	400	400	405	418	

		Projec	ted Defense	rojected Defense Purchases of	Jo			06 pul
		Round	Commercial Printing aded to Millions of 1999 Do	Commercial Printing Rounded to Millions of 1999 Dollars	S			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES		The state of the s	
Direct Purchases		63	28	62	09	54	59	
Indirect Purchases		1,118	1,116	1,118	1,095	1,102	1,168	
	Total:	1,182	1,180	1,180	1,155	1,156	1,227	
	INDIRI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECT	OR		
Aircraft Engines		34	34	33	32	32	33	
Aircraft Parts		40	42	42	42	43	44	
Ammunition		42	41	45	47	49	53	
Communication Equipment		79	80	79	80	82	85	
Missiles		35	35	34	34	34	35	
Motor Vehicles		11	12	13	15	17	18	
Shipbuilding		29	29	29	29	28	28	
Tanks		33	m	m	4	4	\$	
Other Electronic Equipment		ю	33	8	т	33	3	
Other Ordinances		2	2	2	2	2	2	
Other		840	837	835	807	808	862	
	Total:	1,118	1,116	1,118	1,095	1,102	1,168	

		Project Fabricatee Rounde	Projected Defense Purchases of Fabricated Plate Work (Boiler Shops) Rounded to Millions of 1999 Dollars	Purchases o k (Boiler Sh f 1999 Dollars	ops)			Ind 151
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		1,020	983	956	926	938	880	
Indirect Purchases		186	169	180	184	181	182	
	Total:	1,206	1,152	1,136	1,160	1,119	1,063	
	INDIR	INDIRECT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	S BY PURCH.	ASING SECT	OR		
Aircraft Engines			-	,		,	1	
Aircraft Parts		1	1	1	1	_	- ,	
Ammunition		_	-	_	_	-		
Communication Equipment		-1	_	1		_		
Missiles		-	-	-	-		_	
G Motor Vehicles		O´	0	0	0	0	0	
Shipbuilding		42	41	41	42	41	41	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		139	123	133	137	134	135	
	Total:	186	169	180	184	181	182	

		Proje	cted Defense	Projected Defense Purchases of				Ind 142
	Other Nonfe	Other Nonferrous Rolling and Drawing Products, and Nonferrous Wire Rounded to Millions of 1999 Dollars	and Drawir led to Millions	olling and Drawing Products, a Rounded to Millions of 1999 Dollars	and Nonfer s	rous Wire		
		1998	6661	2000	2001	2002	2003	
		SUMMA	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		130	124	122	127	133	133	
Indirect Purchases		923	927	936	947	975	1,023	
	Total:	1,053	1,051	1,058	1,075	1,109	1,156	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE:	S BY PURCH	ASING SECT	OR		
Aircraft Engines		160	159	153	150	150	154	
Aircraft Parts		09	62	62	62	63	99	
Ammunition		12	12	13	14	15	16	
Communication Equipment		74	76	92	77	80	84	
9 Missiles		30	29	29	30	30	32	
Motor Vehicles		3	3	4	4	4	\$	
Shipbuilding		36	35	35	35	34	34	
Tanks		30	31	32	36	40	45	
Other Electronic Equipment		6	6	6	6	6	6	
Other Ordinances		1			-	_	-	
Other		510	512	522	529	548	578	
	Total:	923	927	936	947	975	1,023	

		Project Tanks Rounde	ed Defense and Tank (d)	Projected Defense Purchases of Tanks and Tank Components Rounded to Millions of 1999 Dollars	4 ,			Ind 23
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		1,027	266	1,037	1,109	1,208	1,324	
Indirect Purchases		9	9	9	7	∞	6	
	Total:	1,033	1,003	1,043	1,116	1,216	1,333	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECT	OR		
Tanks		9	9	9	7	∞	6	
Other		0	0	0	0	0	0	
	Total:	9	9	9	7	8	6	

		Project	Projected Defense Purchases of	Purchases (Ĵ			96 pul
		Indus	Industrial Organic Chemicals	ic Chemical	20			
		Rounde	Rounded to Millions of 1999 Dollars	f 1999 Dollar				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		4	4	4	4	4	4	
Indirect Purchases		886	982	626	955	856	1,015	
	Total:	993	986	984	656	362	1,020	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOD	PIRCHASES	RV PIRCHA		٩		
Aircraft Engines		19	19	18	18	18	81	
Aircraft Parts		35	36	36	36	36	37	
Ammunition		23	23	24	26	27	29	
Communication Equipment		99	57	58	59	61	99	
Missiles		21	21	20	20	21	21	
Motor Vehicles		16	17	19	21	22	24	
Shipbuilding		36	35	34	34	33	32	
Tanks		5	5	S	9	9	7	
Other Electronic Equipment		12	11	12	12	12	12	
Other Ordinances		_	_	_	1	-		
Other		765	757	752	723	720	292	
	Total:	886	982	616	955	958	1,015	

		Project	Projected Defense Purchases of	Purchases o	4			69 pul
		•	Apparel	-				
		Rounde	Rounded to Millions of 1999 Dollars	f 1999 Dollars				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHAS	SES			
Direct Durchases		840	814	803	570	673	989	
Indirect Purchases		174	169	168	134	148	153	
	Total:	1,014	983	971	704	821	838	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT	JR.		
Aircraft Engines		1	1	-	1		1	
Aircraft Parts		2	7	2	2	7	2	
Ammunition		11	11	11	12	12	13	
Communication Equipment		5	5	ς,	2	\$	S	
Wissiles 5					-	-	1	
		1	1	-		_	_	
Shipbuilding		1		_	1	-	poset	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		152	148	145	1.11	125	128	
	Total:	174	169	168	134	148	153	

		Proje	cted Defense	Projected Defense Purchases of	of			Ind 234
		Motor V	ehicle Parts	Motor Vehicle Parts and Accessories	ories			
		Round	led to Millions	Rounded to Millions of 1999 Dollars	S			
		1998	1999	2000	2001	2002	2003	
		SUMMAI	RY OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		367	453	593	708	788	879	
Indirect Purchases		444	452	476	495	526	267	
	Total:	811	905	1,069	1,203	1,315	1,446	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH	ASING SECT	OR		
Aircraft Engines		3	8	m	m	ĸ	67	
Aircraft Parts		4	4	4	4	4	4	
Ammunition		4	4	4	4	ς,	ν.	
Communication Equipment		7	7	7	7	7	7	
Missiles		m	c	8	3	e	ო	
		284	295	320	353	383	417	
Shipbuilding		7	7	7	7	7	7	
Tanks		0	-	1	1	-	_	
Other Electronic Equipment		1	_	1	1	-		
Other Ordinances		0	0	0	0	0	0	
Other		131	129	127	113	113	119	
	Total:	444	452	476	495	526	267	

		Project	ed Defense	Projected Defense Purchases of	يبو			Ind 25
		Sma Rounde	Small Arms Ammunition ounded to Millions of 1999 Doll	Small Arms Ammunition Rounded to Millions of 1999 Dollars				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		814	878	914	926	1,049	1,152	
Indirect Purchases		4	4	4	4	4	5	
	Total:	818	881	918	096	1,053	1,156	
	·					ļ		
	INDIRE	INDIRECT DEFENSE	PURCHASE	ENSE PURCHASES BY PURCHASING SECTOR	ASING SECT	OR		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	
Amminition		2	က	က	m	3	3	
Communication Equipment		0	0	0	0	0	0	
Missiles		0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	
Shinbiilding		0	0	0	0	0	0	
		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		1	_	1	1	1	1	
	Total:	4	4	4	4	4	8	-
							•	

		Projec	ted Defense	Purchases (of	The state of the s		Ind 199
		Compu Round	ter Periphe ed to Millions o	Computer Peripheral Equipment Rounded to Millions of 1999 Dollars	ent s			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFE	SUMMARY OF DEFENSE PURCHASES	SES	The state of the s		
Direct Purchases		348	352	354	358	355	368	
Indirect Purchases		491	486	479	475	465	480	
	Total:	838	838	834	833	819	848	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCHA	ASING SECT	R.		
Aircraft Engines		4	4	4	4	4	4	
Aircraft Parts		4	5	\$	5	\$	8	
Ammunition		-	_	1	1	_	-	
Communication Equipment		9	9	ς.	Ŋ	\$	5	
9 Missiles		2	2	2	2	7	2	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		-	-		-	_	-	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		473	467	461	456	446	461	
	Total:	491	486	479	475	465	480	

		Projec	Projected Defense Purchases of	Purchases of	J			Ind 233
		Motor Vehi	Motor Vehicles and Passenger Car Bodies	senger Car	Bodies			
		Nomin	ca to ivillinous c	I 1777 DOLLAR				
		1998	1999	2000	2001	2002	2003	
		STIMMA	STIMMARY OF DEFENSE PURCHASES	SE PURCHA	SES.			
Direct Purchases		1,287	1,254	1,299	1,383	1,483	1,602	
Indirect Purchases		10	23	26	29	31	33	
	Total:	1,298	1,277	1,324	1,412	1,514	1,635	4
	INDIR	INDIRECT DEFENSE	FENSE PURCHASES BY PURCHASING SECTOR	S BY PURCH	ASING SECT	JR.		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	
Communication Equipment		0	0	0	0	0	0	
9 Missiles		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		10	23	26	28	31	33	
	Total:	10	23	26	29	31	33	

			Projecte	d Defense	Projected Defense Purchases of	Į.			Ind 210
			Mot	Motors and Generators	Motors and Generators				
			Doningen	IO INITITIO OI	1999 Dollars				
			1998	1999	2000	2001	2002	2003	
			SUMMARY	OF DEFENS	SUMMARY OF DEFENSE PURCHASES	ES			
	Direct Purchases		474	497	496	493	206	523	
	Indirect Purchases		257	253	263	790	569	281	
		Total:	731	750	759	759	775	804	
		INDIRECT	DEFENSE P	URCHASES	BY PURCHA	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	Ä		
	Aircraft Engines			_	-	-	-	-	
	Aircraft Parts		5	. 5	5	'n	\$	9	
	Ammunition		_	_	-	-			
	Communication Equipment		35	35	35	35	35	36	
	Missiles		4	4	4	4	4	4	
64	Motor Vehicles		2	3	3	m	m	4	
	Shipbuilding		32	31	31	31	30	30	
	Tanks		_	_	_	-	_	,	
	Other Electronic Equipment		0	0	0	0	0	0	
	Other Ordinances		0	0	0	0	0	0	
	Other		175	172	183	185	188	198	
		Total:	257	253	263	266	269	281	

		Project	ed Defense	Projected Defense Purchases of	.			Ind 141
		Aluminum Rolling and Drawing Products Rounded to Millions of 1999 Dollars	Rolling and de to Millions o	num Rolling and Drawing Pro Rounded to Millions of 1999 Dollars	oducts			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		6	6	6	6	∞	6	
Indirect Purchases		714	707	714	723	737	771	
	Total:	724	716	723	732	746	781	
	INDIRE	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASE	S BY PURCH.	ASING SECTO	X.		
Aircraft Engines		20	19	19	18	18	18	
Aircraft Parts		92	94	93	92	93	95	
Ammunition		49	48	52	53	55	58	
Communication Equipment		43	43	42	42	42	43	
Missiles		20	20	19	19	19	19	
Motor Vehicles		10	10	П	13	14	15	
Shipbuilding		63	61	09	09	28	57	
Tanks		27	27	29	31	35	38	
Other Electronic Equipment		4	3	8	æ	3	3.	
Other Ordinances		1	1	1	-	yand	2	
Other		386	379	384	390	399	422	
	Total:	714	707	714	723	737	771	

		Project	ted Defense	Purchases	of			Ind 163
		Pipes,	Valves, and	Pipes, Valves, and Pipe Fittings	S.			
				TO TO TO TO				
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		88	88	98	84	79	68	
Indirect Purchases		547	553	268	270	583	612	
	Total:	635	641	654	654	661	701	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH.	ASING SECTO	JR		
Aircraft Engines		4	4	4	4	4	4	
Aircraft Parts		15	91	16	16	17	17	
Ammunition		3	33	4	4	4	4	
Communication Equipment		9	9	9	9	9	7	
9 Missiles		4	4	4	4	5	5	
Motor Vehicles		3	33	3	4	4	4	
Shipbuilding		182	182	182	186	183	184	
Tanks		0		1	1		yeard	
Other Electronic Equipment		1		-	1		1	
Other Ordinances		0	0	0	0	0	0	
Other		329	334	348	345	359	385	
	Total:	547	553	568	570	583	612	-

		Project	ted Defense	Projected Defense Purchases of	Į.			Ind 102
		Plasti Rounde	cs Materials	Plastics Materials and Resins Rounded to Millions of 1999 Dollars	مد بيا			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		5	8	Ś	\$	S	5	
Indirect Purchases		634	635	640	631	641	089	
	Total:	639	640	644	989	646	685	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECT	JR.		
Aircraft Engines		15	15	15	14	14	15	
Aircraft Parts		41	43	43	43	43	45	
Ammunition		19	19	21	22	23	25	
Communication Equipment		47	48	48	49	20	53	
Missiles		25	25	25	24	25	25	
9 Motor Vehicles		16	18	20	23	25	27	
Shipbuilding		20	19	19	19	19	19	
Tanks		5	S	5	9	9	7	
Other Electronic Equipment		15	14	15	15	14	15	
Other Ordinances		0		-	1		1	
Other		429	429	429	416	420	449	
	Total:	634	635	640	631	641	089	

		Projec	Projected Defense Purchases of	Purchases (J(Ind 230
	Elec	Electrical Machin Rounde	fachinery, Equipment and Sul Rounded to Millions of 1999 Dollars	nent and Su of 1999 Dollars	(achinery, Equipment and Supplies, n.e.c. Rounded to Millions of 1999 Dollars	.•		
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		621	622	610	809	612	624	
Indirect Purchases		12	12	12	12	12	13	
	Total:	633	634	622	620	625	637	
	INDIRI	INDIRECT DEFENSE	PURCHASES	BY PURCHA	ENSE PURCHASES BY PURCHASING SECTOR	%		
Aircraft Engines		0	0	0	0	0	0	
Aircraft Parts		0	0	0	0	0	0	
Ammunition		0	0	0	0	0	0	
Communication Equipment		9	9	9	9	9	7	
9 Missiles		0	0	0	0	0	0	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other			5	\$	\$	5	5	
	Total:	12	12	12	12	12	13	

			TOTAL TO TATILITIES OF 1777 PORTERS		r e			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		7	7	7	9	5	7	
Indirect Purchases		610	603	597	577	574	909	
	Total:	617	610	604	583	579	612	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH.	ASING SECT		7	
Aircraft Engines		16	15	IS	14	14	14	
Aircraft Parts		18	19	19	19	19	19	
Ammunition		19	19	20	21	22	23	
Communication Equipment		37	37	36	36	36	37	
Missiles		17	16	16	15	15	16	
Motor Vehicles		ν.	5	9	7	7	&	
Shipbuilding		15	14	14	14	14	14	
Tanks		1		2	2	7	2	
Other Electronic Equipment		James	_		1		1	
Other Ordinances		1	1			-	gament.	
Other		480	474	468	447	442	469	
	Total:	610	603	597	577	574	605	

		Droiog	Droiocted Defense Durchases of	Durchasas	4			Ind 177
		Special Dies, Rounde	Dies, Jigs, Molds, and Cutting Tools Rounded to Millions of 1999 Dollars	, and Cuttin f 1999 Dollars	g Tools			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		86	09	98	88	82	85	
Indirect Purchases		515	516	532	546	571	603	
	Total:	613	576	618	634	653	889	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	SING SECT	%		
Aircraft Engines		. 37	37	36	35	35	36	
Aircraft Parts		17	18	18	18	18	19	
Ammunition		7	26	28	29	30	32	
Communication Equipment		21	22	22	22	22	23	
od Missiles		19	18	18	18	18	18	
Motor Vehicles		13	13	14	16	17	19	
Shipbuilding		19	19	19	19	18	18	
Tanks		3	3	3	Э	æ	4	
Other Electronic Equipment		2	7	7	2	7	2	
Other Ordinances		_	1	-	-	-		
Other		357	358	372	384	404	430	
	Total:	515	516	532	546	571	603	

		Project	ted Defense	Projected Defense Purchases of	J.			Ind 253
		Laborato Rounde	ry and Opti	Laboratory and Optical Instruments Rounded to Millions of 1999 Dollars	ents			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		277	288	301	314	323	335	
Indirect Purchases		282	279	275	273	276	283	
	Total:	558	267	576	587	599	617	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH.	ASING SECTO	X		
Aircraft Engines		5	5	5	5	5	5	
Aircraft Parts		50	52	52	52	53	54	
Ammunition		4	4	4	4	5	\$	
Communication Equipment		6	10	10	10	10	11	
12 Missiles		186	180	175	173	174	177	
Motor Vehicles		0	0	0	0	0	0	
Shipbuilding		0	0	0	0	0	0	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		27	28	28	28	29	30	
	Total:	282	279	275	273	276	283	

		Projec Newspap Rounde	Projected Defense Purchases of Newspaper Publishing and Printing Rounded to Millions of 1999 Dollars	Purchases on g and Prin	of ting			lnd 86
		8661	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		1	-	_	_	_	1	
Indirect Purchases		584	564	550	525	518	531	
	Total:	585	564	551	526	519	532	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECT	%		
Aircraft Engines		24	23	22	20	20	20	
Aircraft Parts		27	27	26	25	25	25	
Ammunition		30	28	30	30	30	31	
Communication Equipment		53	51	49	48	47	48	
Missiles		24	23	22	21	20	20	
5 Motor Vehicles		7	7	∞	6	6	10	
Shipbuilding		15	15	14	14	13	12	
Tanks		2	2	2	7	2	2	
Other Electronic Equipment		-	-	_	1	_	1	
Other Ordinances		1	1	-	1		1	
Other		401	386	376	355	349	361	
	Total:	584	564	550	525	518	531	

		Project	Projected Defense Purchases of	Purchases o	-			Ind 197
		Industrial and Commercial Machinery, n.e.c. Rounded to Millions of 1999 Dollars	ial and Commercial Machiner Rounded to Millions of 1999 Dollars	al Machine : f 1999 Dollars	ry, n.e.c.			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			1000
Direct Purchases		48	49	51	52	53	57	
Indirect Purchases		501	505	522	528	546	577	
	Total:	549	551	573	581	599	634	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	JR.		
Aircraft Engines		30	30	29	29	29	30	
Aircraft Parts		47	49	49	20	51	53	
Ammunition		47	47	51	53	57	61	
Communication Equipment		33	34	34	35	36	38	
d Missiles		22	22	21	21	22	22	
Motor Vehicles		21	24	29	34	37	41	
Shipbuilding		35	35	35	35	35	35	
Tanks		3	က	3	4	4	5	
Other Electronic Equipment		3	7	3	8	3	3	
Other Ordinances		2	7	7	7	2	2	
Other		258	254	265	263	271	288	
	Total:	501	502	522	528	546	577	

		Projec	Projected Defense Purchases of	Purchases	of			Ind 159
		Metal Pla Rounde	ral Plating, Polishing, and Coating Rounded to Millions of 1999 Dollars	ing, and Co.	ating S			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		2	7	2	1	2	2	
Indirect Purchases		539	545	559	571	588	622	
	Total:	541	547	561	572	290	624	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCHA	ASING SECT)R		
Aircraft Engines		42	42	40	40	40	41	
Aircraft Parts		45	47	48	48	49	51	
Ammunition		39	39	42	45	47	51	
Communication Equipment		119	121	123	126	131	138	
4 Missiles		29	29	29	29	30	31	
Motor Vehicles		10	11	12	14	16	17	
Shipbuilding		14	14	14	14	14	14	
Tanks		2	2	7	2	2	2	ų.
Other Electronic Equipment		28	26	27	27	26	28	
Other Ordinances		3	ю	М	ю	ю	4	
Other		210	213	220	223	230	246	
	Total:	539	545	559	571	588	622	

		Project	Projected Defense Purchases of	Purchases of	j.			Ind 153
		Screw Machine Products, Bolts and Nuts Rounded to Millions of 1999 Dollars	' Machine Products, Bolts and Rounded to Millions of 1999 Dollars	ts, Bolts and f 1999 Dollars	l Nuts			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		20	20	20	19	91	21	
Indirect Purchases		512	515	529	541	260	589	
	Total:	532	535	549	260	576	610	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECTO	8		
Aircraft Engines		12	12	12	12	12	12	
Aircraft Parts		56	27	58	58	58	09	
Ammunition		47	47	20	53	55	59	
Communication Equipment		50	20	20	20	51	53	
Missiles		13	13	13	13	13	14	
Motor Vehicles		15	16	19	21	24	26	
Shipbuilding		38	37	37	37	36	36	
Tanks		9	9	9	7	∞	6	
Other Electronic Equipment		4	4	4	4	4	4	
Other Ordinances		7	m	ີເຕ	m	æ.	က	
Other		269	270	278	285	296	314	i
	Total:	512	515	529	541	260	589	

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		Project	ted Defense	Projected Defense Purchases of	of.			Ind 158
		•	Hardware, n.e.c.	n.e.c.				
		Rounde	ed to Millions	Rounded to Millions of 1999 Dollars	şs			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		390	378	380	391	405	427	
Indirect Purchases		217	222	223	221	227	236	
	Total:	209	009	603	613	632	663	
		INDIDECT DEFENCE BIRCHASES BY BIRCHASHIASHIAS				ş		
Aircraft Engines		3	3	3	3 3	3	m	
Aircraft Parts		09	61	61	61	62	64	
Ammunition		3	3	8	8	m	3	
Communication Equipment		2	2	2	2	2	2	
9 Missiles		6	6	6	6	6	6	
Motor Vehicles		9	9	7	∞	6	6	
Shipbuilding		14	13	13	13	13	13	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		120	123	124	121	125	131	
	Total:	217	222	223	221	227	236	

		Project	Projected Defense Purchases of	Purchases o	4			Ind 164
		Fabrica Rounde	Fabricated Metal Products, n.e.c. Rounded to Millions of 1999 Dollars	roducts, n.e f 1999 Dollars	ં			
		1998	1999	2000	2001	2002	2003	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		123	113	119	118	111	124	
Indirect Purchases		415	409	423	428	439	464	
	Total:	538	522	542	546	550	588	
	INDIRI	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECTO	æ		
Aircraft Engines		5	5	5	5	\$	5	
Aircraft Parts		6	6	6	6	6	10	
Amminition		196	192	207	215	225	239	
Communication Equipment		35	35	35	35	35	36	
Wissiles 7		S	5	4	4	5	ν.	
		m	ю	3	Э	4	4	
Shipbuilding		21	20	20	20	20	20	
Tanks		10	10	11	12	13	15	
Other Electronic Equipment		-	_	-	-	-	1	
Other Ordinances		6	10	10	11	11	11	
Other		122	119	118	113	112	119	
	Total:	415	409	423	428	439	464	

		Projec	ted Defense	Projected Defense Purchases of	بو			Ind 53
		Bro	Broadwoven Fabric Mills	abric Mills	.			
		Rounde	ed to Millions	Rounded to Millions of 1999 Dollars	S	į		
		8661	1999	2000	2001	2002	2003	
		SUMMAR	Y OF DEFEN	SUMMARY OF DEFENSE PURCHASES	SES			
Direct Purchases		<i>L</i> 9	62	09	61	61	<i>L</i> 9	
Indirect Purchases		465	455	453	383	413	438	
	Total:	531	517	512	444	474	506	
	INDIRI	INDIRECT DEFENSE	PURCHASES	BV PURCH	ENSE PURCHASES BY PURCHASING SECTOR	. 9		
Aircraft Engines		6	6	8	8	∞	∞	
Aircraft Parts		3	3	m	3	က	m	
Ammunition		4	4	4	4	\$	'n	
Communication Equipment		S	9	9	9	9	9	
Missiles		4	4	4	4	4	4	
Motor Vehicles		7	∞	∞	6	10	11	
Shipbuilding		9	9	9	9	9	9	
Tanks		1	1	1	-		1	
Other Electronic Equipment		1	1			1	-	
Other Ordinances		0	0	0	0	0	0	
Other		424	415	412	341	370	393	
	Total:	465	455	453	383	413	438	

		Miscellaneou Rounde	liancous Fabricated 1 extile Fri Rounded to Millions of 1999 Dollars	Miscellaneous Fabricated Textile Products Rounded to Millions of 1999 Dollars	roducts			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		322	317	313	285	268	319	
Indirect Purchases		177	179	184	177	189	203	
	Total:	499	495	497	462	457	522	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECT	JR		
Aircraft Engines		1		0	0	0	1	
Aircraft Parts		proof	1	1		_	1	
Ammunition		-		-	_	_	_	
Communication Equipment			_	_		-1	1	
Missiles		1	-	1		-		
Motor Vehicles		27	28	30	33	36	40	
Shipbuilding		23	23	23	24	23	23	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		122	123	126	116	125	135	
	Total:	177	179	184	177	189	203	

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		Projec	Projected Defense Purchases of	Purchases)f		THE PLANT OF THE P	Ind 145
		Nonferr	Nonferrous Castings and Forgings	s and Forgi	ngs			
		Rounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar) 8			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		2	2	2	2	2	2	
Indirect Purchases		479	484	487	490	503	524	
	Total:	481	486	489	492	505	527	
	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	BY PURCH	ASING SECTO	JR S		
Aircraft Engines		223	223	216	213	214	220	
Aircraft Parts		36	37	38	38	39	40	
Ammunition		44	43	47	49	51	55	
Communication Equipment		12	12	12	12	12	13	
Missiles		43	42	41	42	43	44	
Motor Vehicles		_	_	2	2	2	2	
Shipbuilding		7	7	7	7	7	7	
Tanks		∞	6	6	10	11	13	
Other Electronic Equipment			1	1	_	1		
Other Ordinances		2	7	2	2	2	2	
Other		103	108	112	115	121	128	
	Total:	479	484	487	490	503	524	

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			Projected	Projected Defense Purchases of	rchases of				Ind 165
		Š	eam, Gas,	Steam, Gas, and Hydraulic Turbines	ulic Turbin	es			
			Kounded to	Kounded to Millions of 1999 Dollars	999 Dollars				
			8661	1999	2000	2001	2002	2003	
		IS S	UMMARY	SUMMARY OF DEFENSE PURCHASES	PURCHASE	S			
	Direct Purchases		424	481	585	829	756	826	
	Indirect Purchases		23	23	24	25	26	27	
		Total:	447	504	610	704	782	853	
		INDIRECT DE	EFENSE PU	FENSE PURCHASES BY PURCHASING SECTOR	Y PURCHAS	SING SECTO	~		
	Aircraft Engines		0	0	0	0	0	0	
	Aircraft Parts		0	0	0	0	0	0	
	Ammunition		0	0	0	0	0	0	
	Communication Equipment		0	0	0	0	0	0	
8]			0	0	0	0	0	0	
L			0	0	0	0	0	0	
	Shipbuilding		∞	7	7	7	9	9	
	Tanks		0	0	0	0	0	0	
	Other Electronic Equipment		0	0	0	0	0	0	
	Other Ordinances		0	0	0	0	0	0	
	Other		14	14	16	17	18	20	
		Total:	23	23	24	25	26	27	

			Project	Projected Defense Purchases of	urchases of				Ind 81
			Paperboa	Paperboard Containers and Boxes	ers and Box	es			
			Rounded	Rounded to Millions of 1999 Dollars	1999 Dollars				
			1998	1999	2000	2001	2002	2003	
			SUMMARY	SUMMARY OF DEFENSE PURCHASES	E PURCHAS	ES			
	Direct Purchases		14	14	14	14	13	15	
	Indirect Purchases		455	453	452	437	435	470	
		Total:	469	466	465	450	448	486	
		INDIRECT DE	DEFENSE P	URCHASES	3Y PURCHAS	FENSE PURCHASES BY PURCHASING SECTOR	<u>~</u>		
	Aircraft Engines		7	7	7	7	7	7	
	Aircraft Parts		10	10	10	10	10	11	
	Ammunition		21	22	23	24	26	28	
	Communication Equipment		38	38	37	37	38	39	
82	Missiles		∞	∞	∞	∞	∞	. ∞	
	Motor Vehicles		9	9	7	∞	6	10	
	Shipbuilding		14	14	14	14	14	13	
	Tanks		1	_	-	7	7	2	
	Other Electronic Equipment		4	m	4	4	4	4	
	Other Ordinances		_	1	-	posed		1	
	Other		345	342	340	322	317	347	
		Total:	455	453	452	437	435	470	

		Project	Projected Defense Purchases of	Purchases (Į			Ind 255
		Photograp Rounde	tographic Equipment and Supplies Rounded to Millions of 1999 Dollars	ent and Sul	plies			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	IMARY OF DEFENSE PURCHASES	ISE PURCHA	SES			
Direct Purchases		215	223	227	231	236	248	
Indirect Purchases		235	236	238	235	238	252	
	Total:	450	459	465	466	475	500	
•	INDIR	INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR	PURCHASES	S BY PURCH	ASING SECT	OR		
Aircraft Engines		8	5	5	5	5	5	
Aircraft Parts		7	7	7	∞	∞	∞	
Ammunition		18	17	19	20	21	22	
Communication Equipment		13	13	13	13	14	14	
Missiles		7	7	7	7	7	7	
			_	7	2	7	2	
Shipbuilding		5	5	5	5	S	5	
Tanks		1	-	1		-	_	
Other Electronic Equipment			_	-	1	-	1	
Other Ordinances		0	0	0	0	0	0	
Other		177	178	178	174	175	185	
	Total:	235	236	238	235	238	252	

		Projec	Projected Defense Purchases of	Purchases	0			Ind 150
		Fabricate	Fabricated Structural Metal Products	Metal Pro	ducts			
		Kounde	Rounded to Millions of 1999 Dollars	of 1999 Dollar	Š			
		1998	1999	2000	2001	2002	2003	
		SUMMAR	SUMMARY OF DEFENSE PURCHASES	SE PURCHA	SES			
Direct Purchases		41	39	38	39	41	42	
Indirect Purchases		403	405	408	414	415	424	
	Total:	445	444	446	453	456	466	
	INDIR	INDIRECT DEFENSE	PURCHASES	BY PURCH	FENSE PURCHASES BY PURCHASING SECTOR	æ		
Aircraft Engines		4	4	æ	ю	m	4	
Aircraft Parts		26	58	58	58	59	61	
Ammunition		2	2	2	2	2	2	
Communication Equipment		15	15	15	15	16	16	
Missiles		10	10	10	10	10	10	
Motor Vehicles		1	1	_	1		1	
Shipbuilding		288	285	284	288	282	281	
Tanks		0	0	0	0	0	0	
Other Electronic Equipment		0	0	0	0	0	0	
Other Ordinances		0	0	0	0	0	0	
Other		28	30	35	36	41	47	
	Total:	403	405	408	414	415	424	

SECTION III: INDIVIDUAL STATE PROJECTIONS

The tables in this section give state-level estimates of defense and defense-related expenditures in calendar years 1998 through 2003. A separate table presents estimates for each of the 50 states and the District of Columbia; an additional table is provided for the United States as a whole. Each table is divided into two parts, the first providing a general overview of projected spending trends over the forecast period, and the second presenting estimates for the industrial sectors projected to lead in defense or defense-related sales statewide.

The first section of each table presents estimates of direct defense purchases, pay, and indirect defense purchases for each year of the projection period. (For purposes of comparison, projections of nondefense expenditures and of total output — total economic activity — also are provided.)³

The second section provides estimates of the dollar value of direct and indirect purchases from the five industrial sectors projected to lead in defense sales in the state, and the five projected to lead in indirect sales stemming from DoD purchases, over the forecast period.

The industrial sectors represented in the tables are aggregates of the industries covered in Section II. Industrial projections are made for 320 industries. For purposes of the state-level reports, these are grouped into 85 industrial sectors. Thus, industrial sector 44, "Aerospace," appearing in the state tables, includes four industries: industry 235, "Aircraft"; industry 236, "Aircraft and missile engines, propulsion units, and parts"; industry 237, "Aircraft and missile parts and auxiliary equipment, n.e.c."; and industry 21, "Guided missiles and space vehicles."

Total nondefense expenditures represent the difference between total output and total (direct plus indirect) defense purchases and pay. Note that total output is different from (and larger than) gross domestic product (GDP). The calculation of GDP nets out intermediate goods; that is, it does not include the value of intermediate products, which are used to make (or are included in) goods for final sale. Total output includes these intermediate products.

	Alabai Rounded to M	Alabama Summary Rounded to Millions of 1999 dollars	y dollars				
	8661	6661	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	5,338	5,259	5,171	5,011	5,024	5,092	
Indirect Defense Purchases Resulting from Direct Purchases	2,300	2,301	2,302	2,244	2,264	2,382	
Indirect Defense Purchases Resulting from Direct Pay	1,208	1,175	1,152	1,148	1,141	1,140	
Total Nondefense Expenditures	229,633	232,484	237,541	241,972	246,147	250,514	
Total Output	238,483	241,224	246,172	250,381	254,581	259,133	
Government Industry Compensation	2,606	2,570	2,531	2,518	2,502	2,495	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	1,006	886	949	924	906	914	
Aerospace	433	431	432	438	444	458	
Air Transportation	230	228	230	185	207	212	
Apparel and Household Textiles	198	192	189	140	159	166	
	157	149	143	144	148	146	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	744	747	742	722	726	754	
Wholesale Trade	103	104	105	103	104	110,	
Other Nonferrous Metals	93	93	94	95	86	102	
Ferrous Metals	06	68	06	91	92	95	
Metal Products	71	72	75	77	79	84	

		Alaska Summary Rounded to Millions of 1999 dollars	Alaska Summary ed to Millions of 1999	dollars				į
		1998	1999	2000	2001	2002	2003	
		AGGREG/	AGGREGATE MEASURES	RES				
Total Di	Total Direct Expenditures (Purchases and Pay)	2,468	2,424	2,412	2,237	2,312	2,400	
Indirect	Indirect Defense Purchases Resulting from Direct Purchases	200	495	492	471	462	507	
Indirect	Indirect Defense Purchases Resulting from Direct Pay	389	378	371	370	368	368	
Total No	Total Nondefense Expenditures	36,865	37,172	37,657	38,161	38,534	38,874	
Total Output	utput	40,221	40,469	40,932	41,239	41,676	42,149	
Govern	Government Industry Compensation	972	961	944	941	932	930	
	LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total D	Total Direct Expenditures (Purchases and Pay)							
Con	Communications Services	430	424	435	450	466	511	
Tro	Trucking and Highway Passenger Transit	261	256	260	172	215	221	
	Railroads	251	246	249	164	204	209	
Coil 88	Construction	168	162	158	160	164	164	
Res	Research Labs, Computer and Engineering Services	128	124	121	122	122	126	
Indirect	Indirect Defense Purchases Resulting from Direct Purchases							
Crū	Crude Oil	110	108	106	96	85	105	
Res	Research Labs, Computer and Engineering Services	95	94	95	95	86	104	
Elec	Electric Utilities	34	34	35	34	35	37	
Gas	Gas Utilities	30	29	29	29	29	30	
Air	Air Transportation	29	29	28	28	28	29	

AGGREGATE MEASURES 1999 2000 2001 2002 2003 2004		ounded to Mi	Rounded to Millions of 1999 dollars	dollars				
AGGREGATE MEASURES		1998	1999	2000	2001	2002	2003	
Total Direct Expenditures (Purchases and Pay) 4,539 4,541 4,546 4,574 4,632 4,514 Indirect Defense Purchases Resulting from Direct Purchases Resulting from Direct Pay 1,923 1,963 1,963 1,965 2,004 2,1104 1,203 1,108 1,1198 1,1		AGGREGA	TE MEASU	RES				
Indirect Defense Purchases Resulting from Direct Purchases 1,999 1,963 1,983 1,965 2,004 2, Indirect Defense Purchases Resulting from Direct Pay 1,252 1,223 1,204 1,203 1,198 1, Indirect Defense Purchases Resulting from Direct Pay 213,393 217,083 222,660 227,602 232,449 237, Total Nondefense Expenditures	Total Direct Expenditures (Purchases and Pay)	4,539	4,541	4,546	4,574	4,632	4,746	
1,252 1,203 1,204 1,203 1,198 1, 1,108 1,198 1, 1,108 1,108 1,203 1,198 1, 1,108 1,108 1,203 1,108 1,203 1,108 1,203 1,108 1,203 1,108 1,203 1,108 1,203 1,108 1,108 1,203 1,108 1,1	Indirect Defense Purchases Resulting from Direct Purchases	1,939	1,963	1,983	1,965	2,004	2,117	
Total Nondefense Expenditures	Indirect Defense Purchases Resulting from Direct Pay	1,252	1,223	1,204	1,203	1,198	1,199	
Total Output 221,126 224,814 230,395 235,347 240,284 245,84 Coovernment Industry Compensation LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 459 441 438 434 Aerospace Research Labs, Computer and Engineering Services 459 441 438 434 Metal Products Metal Products 129 138 141 140 143 Other Chemicals 129 138 141 140 143 Construction 131 126 123 128 Indirect Defense Purchases Resulting from Direct Purchases 374 340 441 Communications Equipment and Electronic Components 374 342 348 Research Labs, Computer and Engineering Services 254 261 256 248 89 Aerospace Wholesale Trade 89 89 89 89 89 Finance and Insurance 85 <		213,393	217,083	222,660	227,602	232,449	237,558	
Covernment Industry Compensation 2,122 2,102 2,076 2,068 2,054 434 434 434 434 434 434 434 434 434 434 434 434 434 434 434 434 434 434 441 444		221,126	224,814	230,395	235,347	240,284	245,622	
LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) 888 904 919 944 982 1. Aerospace 459 452 441 438 434 Meal Products 335 341 360 379 401 Other Chemicals 129 138 141 140 143 Construction 131 126 123 128 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 421 444 Research Labs, Computer and Electronic Components 374 342 348 348 Aerospace 254 261 256 248 245 Wholesale Trade 89 89 89 89 Finance and Insurance 85 85 83 89	Government Industry Compensation	2,122	2,102	2,076	2,068	2,054	2,048	
kyices 964 919 944 982 11, rvices 459 452 441 438 434 335 341 360 379 401 129 138 141 140 143 131 126 123 125 128 ect Purchases omponents 374 390 405 421 444 omponents 374 390 405 421 444 rvices 254 261 256 248 245 89 89 89 89 85 85 85 83		PURCHASE	S BY INDUST	FRIAL SECT	ORS			
Aerospace 888 904 919 944 982 1. Research Labs, Computer and Engineering Services 459 452 441 438 434 Metal Products 335 341 360 379 401 Other Chemicals 129 138 141 140 143 Construction 131 126 123 125 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 123 125 128 Communications Equipment and Electronic Components 374 390 405 421 444 Research Labs, Computer and Engineering Services 339 342 344 342 348 Aerospace 89 89 89 89 89 Finance and Insurance 85 85 83 83	Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services 459 452 441 438 434 Metal Products 335 341 360 379 401 Other Chemicals 129 138 141 140 143 Construction 131 126 123 125 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 421 444 Communications Equipment and Electronic Components 374 342 342 348 Research Labs, Computer and Engineering Services 254 261 256 248 245 Aerospace 89 89 89 89 89 89 Finance and Insurance 85 85 82 83 83	Aerospace	888	904	919	944	982	1,030	
Metal Products 335 341 360 379 401 Other Chemicals Other Chemicals 129 138 141 140 143 Construction Indirect Defense Purchases Resulting from Direct Purchases 131 126 123 125 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 421 444 Research Labs, Computer and Engineering Services 339 342 344 342 348 Aerospace Aerospace 254 261 256 248 245 Wholesale Trade 89 89 89 89 89 Finance and Insurance 85 85 85 83	Research Labs. Computer and Engineering Services	459	452	441	438	434	445	
Other Chemicals 129 138 141 140 143 Construction Indirect Defense Purchases Resulting from Direct Purchases 131 126 123 125 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 421 444 Communications Equipment and Electronic Components 339 342 344 342 348 Research Labs, Computer and Engineering Services 254 261 256 248 245 Aerospace Wholesale Trade 89 89 89 89 Finance and Insurance 85 85 85 83 89	Metal Products	335	341	360	379	401	427	
Construction Indirect Defense Purchases Resulting from Direct Purchases 131 126 123 128 Indirect Defense Purchases Resulting from Direct Purchases 374 390 405 421 444 Communications Equipment and Electronic Components 339 342 343 348 348 Research Labs, Computer and Engineering Services 254 261 256 248 245 Aerospace Wholesale Trade 89 89 89 89 Finance and Insurance 85 85 82 83	Other Chemicals	129	138	141	140	143	150	
374 390 405 421 444 339 342 342 348 254 261 256 248 245 89 89 89 89 85 85 82 83		131	126	123	125	128	127	
374 390 405 421 444 339 342 344 342 348 254 261 256 248 245 89 89 89 89 85 85 83	Indirect Defense Purchases Resulting from Direct Purchases							
339 342 344 342 348 254 261 256 248 245 89 89 89 89 85 85 82 83	Communications Equipment and Electronic Components	374	390	405	421	444	478	
254 261 256 248 245 89 89 89 89 85 85 85 83	Research Labs, Computer and Engineering Services	339	342	344	342	348	367	
89 89 89 89 89 85 85 85 83	Aerospace	254	261	256	248	245	244	
85 85 82 83	Wholesale Trade	88	68	68	88	88	95	
	Finance and Insurance	85	85	85	82	83	68	

	Arkan	Arkansas Summary	2				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	1,310	1,294	1,282	1,245	1,248	1,272	
Indirect Defense Purchases Resulting from Direct Purchases	851	852	829	836	843	006	
Indirect Defense Purchases Resulting from Direct Pay	208	493	482	479	474	472	
Total Nondefense Expenditures	129,631	131,261	134,499	137,188	139,732	142,395	
Total Output	132,303	133,903	137,127	139,751	142,300	145,043	
Government Industry Compensation	839	832	822	818	813	811	
LARGEST	<u>-</u>	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	96	76	96	76	66	103	
Construction	72	70	89	69	70	70	
Air Transportation	89	<i>L</i> 9	<i>L</i> 9	54	61	62	
Food and Tobacco	47	47	46	42	35	47	
Shoes and Leather	32	31	30	21	25	26	
Indirect Defense Purchases Resulting from Direct Purchases							
Wholesale Trade	59	59	09	59	09	64	
Other Nonferrous Metals	58	58	58	59	09	63	
Metal Products	53	53	55	99	57	61	
Trucking and Highway Passenger Transit	43	43	4	40	42	45	
Paper	41	41	41	40	39	42	

	Califo	California Summary	ıry				
	Rounded to N	Rounded to Millions of 1999 dollars	9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREC	AGGREGATE MEASURES	JRES				
Total Direct Expenditures (Purchases and Pay)	42,528	42,265	41,964	41,696	41,759	43,353	
Indirect Defense Purchases Resulting from Direct Purchases	15,786	15,814	15,824	15,442	15,581	16,514	
Indirect Defense Purchases Resulting from Direct Pay	7,935	7,730	7,577	7,556	7,509	7,503	
Total Nondefense Expenditures	1,624,784	1,648,769	1,684,964	1,718,646	1,750,935	1,783,858	
Total Output	1,691,025	1,714,570	1,750,321	1,783,335	1,815,780	1,851,224	
Government Industry Compensation	14,388	14,202	13,979	13,915	13,818	13,782	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	STRIAL SECT	rors			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	8,203	8,295	8,344	8,493	8,782	9,167	
Research Labs, Computer and Engineering Services	6,582	6,461	6,252	6,156	960'9	6,205	
Communications Equipment and Electronic Components	1,912	1,922	1,916	1,922	1,944	2,014	
Ships and Boats	1,230	1,199	1,196	1,223	1,211	1,218	
	1,035	1,087	1,108	1,119	1,150	1,203	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	4,865	4,885	4,885	4,811	4,885	5,118	
Communications Equipment and Electronic Components	1,282	1,315	1,343	1,381	1,436	1,535	
Aerospace	1,085	1,101	1,075	1,042	1,029	1,031	
Wholesale Trade	821	823	835	825	838	968	
Petroleum Refining	628	620	613	556	513	609	

		Colors	Colorado Summary	Ì				
		Rounded to M	Rounded to Millions of 1999 dollars	9 dollars				
		1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES				
	Total Direct Expenditures (Purchases and Pay)	6,742	6,625	6,434	6,309	6,281	6,357	
	Indirect Defense Purchases Resulting from Direct Purchases	1,947	1,944	1,942	1,892	1,900	2,018	
	Indirect Defense Purchases Resulting from Direct Pay	1,323	1,289	1,264	1,259	1,250	1,248	
	Total Nondefense Expenditures	234,100	237,566	242,815	247,291	251,938	256,987	
	Total Output	244,113	247,425	252,455	256,752	261,369	266,610	
	Government Industry Compensation	2,479	2,452	2,417	2,407	2,391	2,384	
	LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Aerospace	2,423	2,362	2,234	2,143	2,121	2,130	
	Research Labs, Computer and Engineering Services	663	652	633	625	620	633	
9		282	276	285	300	318	343	
2		272	266	253	244	242	245	
	Construction	157	151	148	150	153	153	
	Indirect Defense Purchases Resulting from Direct Purchases							
	Research Labs, Computer and Engineering Services	490	493	495	488	497	522	
	Communications Equipment and Electronic Components	119	119	118	119	121	128	
	Wholesale Trade	105	105	106	104	105	112	
	Crude Oil	106	104	102	93	83	103	
	Communications Services	101	103	105	105	107	117	

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F		Connecti	Connecticut Summary	Ę.				
		Rounded to Millions of 1999 dollars	llions of 1999	dollars			The state of the s	
11		1998	1999	2000	2001	2002	2003	
(1		AGGREG/	AGGREGATE MEASURES	ÆS				
•	Total Direct Expenditures (Purchases and Pay)	4,175	4,079	4,104	4,127	4,209	4,369	
	Indirect Defense Purchases Resulting from Direct Purchases	4,277	4,083	3,866	3,662	3,770	3,940	
•	Indirect Defense Purchases Resulting from Direct Pay	611	594	580	576	571	268	
-	Total Nondefense Expenditures	181,277	183,707	187,602	191,208	194,333	197,596	
٠	Total Output	190,316	192,435	196,136	199,558	202,869	206,459	
	Government Industry Compensation	402	700	689	989	681	619	
	LARGE	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Aeronace	946	826	1,015	1,061	1,121	1,190	
	Shine and Boats	609	595	586	591	588	594	
	Research I abs Committee and Engineering Services	460	452	442	443	448	463	
	Roal Estate	553	443	435	404	416	427	
93	Other Chemicals	182	195	198	197	201	212	
	Indirect Defense Purchases Resulting from Direct Purchases							
	Real Fstate	2,577	2,369	2,150	1,984	2,081	2,176	
	Research Labs. Computer and Engineering Services	340	342	346	346	359	382	
	Aproximate	323	337	337	329	325	326	
	Finance and Institute	123	123	124	118	120	128	
	Communications Equipment and Electronic Components	95	96	96	86	102	109	
	•							

	Delawa	Delaware Summary	P				
	Rounded to Millions of 1999 dollars	illions of 1999	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREGA	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	827	837	828	805	809	828	
Indirect Defense Purchases Resulting from Direct Purchases	309	309	311	301	303	326	
Indirect Defense Purchases Resulting from Direct Pay	214	208	204	204	203	202	
Total Nondefense Expenditures	53,375	53,982	55,489	56,776	57,912	59,047	
Total Output	54,724	55,337	56,833	58,085	59,227	60,405	
Government Industry Compensation	372	368	363	361	359	358	
LARGEST		S BY INDUST	PURCHASES BY INDUSTRIAL SECTORS	RS			
Total Direct Expenditures (Purchases and Pay)							
Medical Instruments and Supplies	290	308	305	296	300	314	
Trucking and Highway Passenger Transit	30	29	30	20	25	25	
Construction	24	24	23	23	24	24	
Research Labs, Computer and Engineering Services	15	15	14	14	13	14	
Education and Nonprofit Organizations	11	11	11	11	11	11	
Indirect Defense Purchases Resulting from Direct Purchases							
Other Chemicals	98	98	98	85	85	16	
Finance and Insurance	33	32	32	30	31	32	
Petroleum Refining	28	28	28	26	25	30	
Wholesale Trade	20	20	21	20	21	22	
Electric Utilities	13	13	13	13	13	14	

	District of Columbia Summary Rounded to Millions of 1999 dollars	llions of 1999	nmary dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREGA	AGGREGATE MEASURES	LES				
Total Direct Expenditures (Purchases and Pay)	3,397	3,344	3,298	3,190	3,164	3,298	
Indirect Defense Purchases Resulting from Direct Purchases	200	691	683	999	929	712	
Indirect Defense Purchases Resulting from Direct Pay	611	593	581	578	574	572	
Total Nondefense Expenditures	72,159	72,990	74,143	75,154	76,199	77,155	
Total Output	76,866	77,617	78,704	79,587	80,613	81,738	
Government Industry Compensation	1,506	1,478	1,447	1,439	1,428	1,425	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	RS			
Total Direct Expenditures (Purchases and Pay)							
Communications Services	610	613	613	601	562	629	
Research Labs, Computer and Engineering Services	491	483	470	467	461	471	
Water Transportation	364	358	354	284	317	320	
Construction	76	95	93	95	96	96	
Computers	51	20	51	51	20	53	
G Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	363	365	368	365	369	389	
Real Estate	130	120	109	100	105	110	
Communications Services	32	32	32	31	31	34	
Printing and Publishing	24	24	24	23	23	24	
Electric Utilities	22	22	22	22	. 22	23	

	Floric	Florida Summary	Λ				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars	in page in the pag			
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES			and the state of t	
Total Direct Expenditures (Purchases and Pay)	14,939	14,817	14,670	14,532	14,578	14,834	
Indirect Defense Purchases Resulting from Direct Purchases	4,654	4,686	4,729	4,629	4,710	5,005	
Indirect Defense Purchases Resulting from Direct Pay	4,523	4,420	4,345	4,343	4,327	4,333	
Total Nondefense Expenditures	688,000	699,736	717,518	734,007	750,495	767,128	
Total Output	712,160	723,695	741,311	757,558	774,151	791,338	
Government Industry Compensation	7,633	7,562	7,468	7,439	7,391	7,371	
LARGEST	_	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	1,913	1,915	1,912	1,930	1,971	2,041	
Research Labs, Computer and Engineering Services	1,630	1,605	1,568	1,562	1,565	1,610	
Communications Equipment and Electronic Components	808	792	770	757	753	191	
Metal Products	400	403	420	437	458	483	
Construction	377	364	354	359	367	367	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	1,205	1,214	1,225	1,221	1,254	1,328	
Wholesale Trade	354	357	364	362	369	396	
Communications Equipment and Electronic Components	337	340	344	354	369	397	
Finance and Insurance	281	282	286	275	282	303	
Movies and Amusements	236	232	231	224	218	230	

	Georg Rounded to Mi	Georgia Summary Rounded to Millions of 1999 dollars	/ dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	10,494	10,313	10,123	9,943	9,918	10,044	
Indirect Defense Purchases Resulting from Direct Purchases	3,102	3,109	3,117	3,029	3,076	3,260	
Indirect Defense Purchases Resulting from Direct Pay	2,474	2,415	2,374	2,372	2,362	2,364	
Total Nondefense Expenditures	434,425	442,014	454,191	464,845	475,220	486,129	
Total Output	450,487	457,845	469,789	480,175	490,566	501,787	
Government Industry Compensation	4,971	4,910	4,831	4,812	4,775	4,763	
LARG	LARGEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUST	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							

-	Total Direct Expenditures (Purchases and Pay)				
	Aerospace	3,475	3,427	3,309	
	Research Labs, Computer and Engineering Services	442	435	426	
	Ships and Boats	210	205	204	
	Construction	209	202	196	
97	Trucking and Highway Passenger Transit	127	124	126	
	Indirect Defense Purchases Resulting from Direct Purchases	308	320	333	

Total Direct Expenditures (Furchases and Fay)						
Aerospace	3,475	3,427	3,309	3,240	3,257	3,318
Research Labs. Computer and Engineering Services	442	435	426	427	426	439
Ships and Boats	210	205	204	209	207	209
Construction	209	202	196	199	204	203
Trucking and Highway Passenger Transit	127	124	126	84	104	107
Indirect Defense Purchases Resulting from Direct Purchases						
Research Labs, Computer and Engineering Services	326	329	333	334	341	362
Aerospace	312	317	301	289	284	285
Wholesale Trade	257	259	264	261	265	284
Communications Services	201	208	217	220	228	252
Textiles (Except Knitting)	191	188	188	165	176	188

	Пошо	Howeii Cummon					
	Rounded to Mi	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	3,629	3,572	3,509	3,452	3,432	3,474	
Indirect Defense Purchases Resulting from Direct Purchases	505	502	503	490	497	527	
Indirect Defense Purchases Resulting from Direct Pay	1,078	1,051	1,033	1,030	1,025	1,025	
Total Nondefense Expenditures	800,68	90,650	92,478	94,015	95,554	97,241	
Total Output	94,219	95,774	97,523	886,86	100,507	102,267	
Government Industry Compensation	2,674	2,636	2,588	2,577	2,555	2,549	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	291	283	277	282	286	286	
Research Labs, Computer and Engineering Services	174	169	164	165	164	168	
Trucking and Highway Passenger Transit	98	85	98	57	71	73	
Electric Utilities	55	55	99	57	57	58	
Petroleum Refining	52	52	51	46	39	52	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	129	128	128	129	132	139	
Electric Utilities	70	70	71	70	7.1	92	
Air Transportation	39	40	40	40	41	43	
Eating and Drinking Places	29	29	28	27	27	28	
Wholesale Trade	26	26	27	26	27	28	

	Idaho	Idaho Summary					
	Rounded to Millions of 1999 dollars	llions of 1999	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREGA	AGGREGATE MEASURES	LES				
Total Direct Expenditures (Purchases and Pay)	536	527	518	511	502	909	
Indirect Defense Purchases Resulting from Direct Purchases	466	471	476	468	472	502	
Indirect Defense Purchases Resulting from Direct Pay	254	248	244	244	244	244	
Total Nondefense Expenditures	59,911	61,004	62,649	64,010	65,311	66,646	
Total Output	61,168	62,251	63,888	65,234	66,529	64,899	
Government Industry Compensation	391	387	383	381	378	377	
LARGE	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Electric Utilities	09	56	53	51	46	45	
Construction	28	27	26	27	27	27	
Research Labs, Computer and Engineering Services	13	13	12	12	12	12	
Communications Equipment and Electronic Components	•	∞	7	7	7	7	
Food and Tobacco	7	7	7	7	5	7	
G Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	124	134	141	147	154	166	
Electric Utilities	9/	72	89	62	57	59	
Wholesale Trade	34	34	34	34	34	37	
Computers	20	20	20	20	20	20	
Finance and Insurance	20	20	20	19	19	21	

1998 1999 2000 2001 2002 2003 AGGRECATE MEASURES 1999 2000 2001 2002 2003 Indirect Defense Purchases and Pay) 4,228 4,161 4,126 4,019 4,011 4,123 Indirect Defense Purchases Resulting from Direct Pay 2,166 2,106 2,057 2,048 2,032 2,026 Total Nondefense Expenditures (Purchases and Pay) 2,166 2,1104 722,927 735,046 741,597 Total Nondefense Expenditures Resulting from Direct Pay 2,186 2,136 2,137 735,046 741,597 Total Direct Expenditures (Purchases and Pay) 2,186 2,188 2,239 2,1272 2,213 2,196 2,190 Government Industry Compensation 1,77 1,78 1,68 1,70 1,14 1,44 Total Direct Expenditures (Purchases and Pay) 1,78 1,78 1,78 1,40 1,44 1,44 Ascessor Lands Computer and Engineering Services 1,67 1,70 1,70 1,71 1,40 1,44 Tucking and Highway Passenger Transit 1,71 1,67 1,70 1,71 1,67 1,70 1,14 1,44 Acrospace Food and Tobacco 1,86 1,86 1,96 1		Illino	Illinois Summary					
1998 1999 2000 2001 2002 AGGREGATE MEASURES AGGREGATE MEASURES AGGREGATE MEASURES AGGREGATE MEASURES Add Add Add Add Add Add Add Add Add Ad		Rounded to M	fillions of 199	dollars				
AGGREGATE MEASURES		8661	1999	2000	2001	2002	2003	
Total Direct Expenditures (Purchases and Pay) 4,228 4,161 4,126 4,019 4,011 Indirect Defense Purchases Resulting from Direct Pay 2,166 2,106 2,057 2,048 2,032 Indirect Defense Purchases Resulting from Direct Pay 2,166 2,106 2,057 2,048 2,032 Total Nondefense Expenditures 703,818 708,853 721,775 733,403 745,528 75,966 74,508 745,528 75,904 740 740 740 740 740 740		AGGREG	ATE MEASU	RES				
Indirect Defense Purchases Resulting from Direct Purchases 4,576 4,543 4,546 4,404 4,406	Total Direct Expenditures (Purchases and Pay)	4,228	4,161	4,126	4,019	4,011	4,123	
Indirect Defense Purchases Resulting from Direct Pay 692,845 698,039 711,041 722,927 735,046 736 70tal Output Total Output Total Output LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services and Highway Passenger Transit 177 172 173 173 173 174 175 175 175 175 176 174 174 175 176 175 176 177 170 170 171 170 170 170 171 170 170	Indirect Defense Purchases Resulting from Direct Purchases	4,576	4,543	4,546	4,404	4,436	4,718	
Total Nondefense Expenditures 692,845 698,039 711,041 722,927 735,046 7 Total Output 703,818 708,853 721,775 733,403 745,528 7 Government Industry Compensation 2,288 2,259 2,222 2,213 2,196 7 LARGEST PURCHASES BY INDUSTRIAL SECTORS LARGEST PURCHASES BY INDUSTRIAL SECTORS Construction Trucking and Highway Passenger Transit 177 172 168 170 174 Acrospace 170 170 170 174 176 176 Acrospace 162 165 170 177 186 176 Acrospace 160 155 152 140 116 116 Acrospace 160 156 155 140 116 116 Acrospace 170 172 140 116 116 116 Modeal Products Wholesale Trade Wholesale Trade 162 162 <td< td=""><td>Indirect Defense Purchases Resulting from Direct Pay</td><td>2,166</td><td>2,106</td><td>2,057</td><td>2,048</td><td>2,032</td><td>2,026</td><td></td></td<>	Indirect Defense Purchases Resulting from Direct Pay	2,166	2,106	2,057	2,048	2,032	2,026	
Total Output 703,818 708,853 721,775 733,403 745,528 LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 305 299 290 285 281 Construction 177 172 168 170 174 Acrospace Food and Highway Passenger Transit 162 165 170 177 186 Acrospace Food and Tobacco 156 155 140 116 Acrospace 162 165 165 170 171 186 Moderal Products Wholessale Trade 400 398 401 393 397 Wholessale Trade Metral Products 291 296 296 298 304 Petroleum Refining 277 272 272 272 272 272 Total Squipmen	Total Nondefense Expenditures	692,845	68,039	711,041	722,927	735,046	747,597	
Government Industry Compensation 2,288 2,259 2,222 2,213 2,196 LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 305 299 290 285 281 Construction 177 172 168 170 174 140 Aerospace 162 165 170 177 186 Aerospace 165 176 177 186 Food and Tobacco 156 155 140 116 Molessale Trade 156 155 140 116 Wholessale Trade 400 398 401 393 397 Finance and Insurance 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 282	Total Output	703,818	708,853	721,775	733,403	745,528	758,468	
LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 305 299 290 285 281 Construction 177 172 168 170 174 Acrospace 162 165 170 177 186 Food and Tobacco 156 155 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade Wholesale Trade 400 398 401 393 394 Finance and Insurance 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262	Government Industry Compensation	2,288	2,259	2,222	2,213	2,196	2,190	
Total Direct Expenditures (Purchases and Pay) Research Labs, Computer and Engineering Services 305 299 290 281 Construction 177 172 168 170 174 Trucking and Highway Passenger Transit 162 165 170 113 140 Aerospace 162 165 170 177 186 Food and Tobacco 156 155 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade 400 398 401 393 331 Wholesale Trade 734 343 326 331 Metal Products 291 290 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262	LARGE	ST PURCHASE	S BY INDUS	TRIAL SECT	ORS			
Research Labs, Computer and Engineering Services 305 299 290 285 281 Construction 177 172 168 170 174 Trucking and Highway Passenger Transit 171 167 170 113 140 Aerospace 162 165 170 177 186 Food and Tobacco 156 155 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade Finance and Insurance 345 343 326 331 Metal Products 291 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262	Total Direct Expenditures (Purchases and Pay)							
Construction 177 172 168 170 174 Trucking and Highway Passenger Transit 171 167 170 113 140 Aerospace 162 165 170 177 186 Food and Tobacco 156 155 152 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade 345 343 343 326 331 Finance and Insurance 345 343 326 331 Metal Products 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262	Research Labs, Computer and Engineering Services	305	299	290	285	281	285	
Trucking and Highway Passenger Transit 171 167 170 113 140 Aerospace Food and Tobacco 156 155 152 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade 400 398 401 393 397 Finance and Insurance 345 343 326 331 Metal Products 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 266 262 262	Construction	177	172	168	170	174	174	
Aerospace Aerospace 162 165 170 177 186 Food and Tobacco 156 155 152 140 116 Indirect Defense Purchases Resulting from Direct Purchases 400 398 401 393 397 Wholesale Trade 400 398 401 393 397 Finance and Insurance 345 343 326 331 Metal Products 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262		171	167	170	113	140	144	
Food and Tobacco 156 155 152 140 116 Indirect Defense Purchases Resulting from Direct Purchases Wholesale Trade 400 398 401 393 397 Finance and Insurance 345 343 326 331 Metal Products 291 290 296 298 304 Petroleum Refining 277 272 247 230 Communications Equipment and Electronic Components 284 275 262 262	·	162	165	170	177	186	196	
400 398 401 393 397 345 343 326 331 291 290 296 298 304 281 277 272 247 230 284 275 266 262 262		156	155	152	140	116	157	
400 398 401 393 397 345 343 326 331 291 290 296 298 304 281 277 272 247 230 284 275 266 262 262	Indirect Defense Purchases Resulting from Direct Purchases							
345 343 326 331 291 296 298 304 281 277 272 247 230 284 275 266 262 262	Wholesale Trade	400	398	401	393	397	422	
291 290 296 298 304 281 277 272 247 230 284 275 266 262 262	Finance and Insurance	345	343	343	326	331	352	
281 277 272 247 230 284 275 266 262 262	Metal Products	291	290	296	298	304	319	
284 275 266 262 262	Petroleum Refining	281	277	272	247	230	276	
	Communications Equipment and Electronic Components	284	275	266	262	262	273	

	Indian	Indiana Summary					
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,838	2,809	2,811	2,793	2,786	2,906	
Indirect Defense Purchases Resulting from Direct Purchases	2,622	2,615	2,631	2,581	2,603	2,749	
Indirect Defense Purchases Resulting from Direct Pay	1,084	1,061	1,043	1,043	1,041	1,043	
Total Nondefense Expenditures	348,319	351,686	360,334	367,612	374,787	381,971	
Total Output	354,876	358,184	366,834	374,042	381,229	388,679	
Government Industry Compensation	1,284	1,260	1,238	1,230	1,223	1,220	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	286	282	276	274	271	278	
Communications Equipment and Electronic Components	285	280	283	287	286	295	
Aerospace	244	243	240	243	249	258	
Engines and Turbines	65	77	86	118	133	146	
Petroleum Refining	63	64	64	58	52	70	
☐ Indirect Defense Purchases Resulting from Direct Purchases							
Ferrous Metals	326	321	324	326	328	337	
Other Nonferrous Metals	223	223	226	229	236	249	
Research Labs, Computer and Engineering Services	211	213	216	214	217	229	
Metal Products	190	192	197	200	204	215	
Wholesale Trade	149	149	151	149	150	160	

	Iowa	Iowa Summary					
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	839	828	820	815	817	834	
Indirect Defense Purchases Resulting from Direct Purchases	754	750	755	736	745	793	
Indirect Defense Purchases Resulting from Direct Pay	425	413	402	399	395	393	
Total Nondefense Expenditures	152,363	153,383	156,580	159,581	162,364	165,203	
Total Output	154,381	155,375	158,557	161,532	164,322	167,223	
Government Industry Compensation	284	281	277	276	275	274	
LARGEST	EST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Communications Equipment and Electronic Components	242	243	239	237	240	247	
Instruments	85	87	87	98	88	91	
Metal Products	47	43	45	46	45	46	
Research Labs, Computer and Engineering Services	36	35	34	34	34	34	
Construction	32	32	31	32	32	32	
Indirect Defense Purchases Resulting from Direct Purchases							
	88	88	86	88	68	95	
Finance and Insurance	89	<i>L</i> 9	<i>L</i> 9	49	65	69	
Metal Products	47	47	48	49	50	52	
Other Nonferrous Metals	46	46	46	47	48	50	
Food and Tobacco	43	42	42	38	36	41	

	Kansa	Kansas Summary	;				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,199	2,164	2,138	2,111	2,078	2,117	
Indirect Defense Purchases Resulting from Direct Purchases	1,304	1,309	1,312	1,265	1,264	1,356	
Indirect Defense Purchases Resulting from Direct Pay	691	672	658	655	651	650	
Total Nondefense Expenditures	143,931	145,280	148,184	150,969	153,852	156,796	
Total Output	148,129	149,429	152,296	155,004	157,846	160,921	
Government Industry Compensation	1,212	1,199	1,181	1,177	1,167	1,164	
LARGES		F PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	438	433	439	449	448	461	
Research Labs. Computer and Engineering Services	104	101	66	66	86	101	
Construction	82	78	92	77	42	79	
	09	59	58	53	44	09	
Petroleum Refining	28	52	44	36	19	18	
Indirect Defense Purchases Resulting from Direct Purchases							
Aerospace	262	272	273	270	270	272	
Petroleum Refining	106	105	103	93	87	104	
Crude Oil	92	06	88	80	71	88	
Automobile Repairs	88	88	06	85	88	93	
Wholesale Trade	08	80	81	80	81	98	

	Kentu	Kentucky Summary	 				
	Rounded to M	Rounded to Millions of 1999 dollars	9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,867	2,825	2,780	2,730	2,701	2,743	
Indirect Defense Purchases Resulting from Direct Purchases	1,607	1,608	1,619	1,586	1,593	1,703	
Indirect Defense Purchases Resulting from Direct Pay	1,047	1,020	1,001	866	993	993	
Total Nondefense Expenditures	233,481	236,143	241,132	245,267	249,495	253,662	
Total Output	239,006	241,600	246,536	250,586	254,786	259,105	
Government Industry Compensation	1,941	1,918	1,886	1,879	1,863	1,859	
LARGEST	_	PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	309	306	303	305	300	311	
Construction	119	114	110	112	115	115	
Air Transportation	85	84	85	89	92	78	
Apparel and Household Textiles	51	51	50	43	43	50	
Petroleum Refining	46	41	34	27	12	10	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	228	232	237	238	241	257	
Petroleum Refining	118	118	116	106	86	117	
Other Nonferrous Metals	103	104	106	107	110	116	
Wholesale Trade	94	94	95	93	94	101	
Coal Mining	83	82	82	81	80	84	

		Louisin	I omisione Cummom	ř				
		Rounded to M	Rounded to Millions of 1999 dollars	dollars				
		1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES				
	Total Direct Expenditures (Purchases and Pay)	4,193	4,128	4,080	4,002	3,900	4,102	
	Indirect Defense Purchases Resulting from Direct Purchases	2,300	2,293	2,282	2,130	2,042	2,318	
	Indirect Defense Purchases Resulting from Direct Pay	856	933	914	912	906	904	
	Total Nondefense Expenditures	237,581	239,639	244,108	248,396	252,492	256,579	
	Total Output	244,975	246,932	251,347	255,402	259,310	263,875	
	Government Industry Compensation	1,522	1,505	1,482	1,477	1,466	1,462	
	LARGE	RGEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUS	FRIAL SECT	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Ships and Boats	1,130	1,101	1,101	1,128	1,117	1,124	
	Petroleum Refining	436	429	415	372	304	397	
	Fuel Oil	301	304	303	277	246	331	
	Construction	244	230	221	223	233	231	
	Other Chemicals	126	136	139	138	142	148	
10	Indirect Defense Purchases Resulting from Direct Purchases							
05	Crude Oil	644	639	630	574	517	642	
	Petroleum Refining	482	478	474	433	402	479	
	Other Chemicals	135	136	136	132	133	141	
	Wholesale Trade	102	103	104	103	104	112	
	Fuel Oil	91	68	88	9/	9/	84	

	Maine Summary Rounded to Millions of 1999 dollars	Maine Summary d to Millions of 1999	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREGA	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,585	2,527	2,520	2,532	2,526	2,547	
Indirect Defense Purchases Resulting from Direct Purchases	355	359	359	344	343	360	
Indirect Defense Purchases Resulting from Direct Pay	344	336	330	330	329	330	
Total Nondefense Expenditures	64,682	65,448	66,741	64,899	69,027	70,229	
Total Output	67,968	68,671	69,950	71,105	72,226	73,465	
Government Industry Compensation	643	633	622	619	615	613	
LARGEST	_	S BY INDUST	PURCHASES BY INDUSTRIAL SECTORS	ORS			
Total Direct Expenditures (Purchases and Pay)							
Ships and Boats	1,672	1,629	1,629	1,671	1,655	1,665	
Metal Products	89	89	72	92	80	84	
	99	55	26	37	46	47	
Construction	39	38	37	37	38	38	
Medical Instruments and Supplies	28	27	27	19	23	23	
Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	58	09	62	63	99	70	
Paper	49	49	48	47	46	49	
Wholesale Trade	32	32	32	32	32	34	
Finance and Insurance	23	23	23	22	22	23	
Aerospace	18	19	19	18	18	18	

	Maryla	Maryland Summary	ý				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	9,448	9,326	9,211	980'6	9,083	9,303	
Indirect Defense Purchases Resulting from Direct Purchases	3,187	3,186	3,191	3,125	3,162	3,337	
Indirect Defense Purchases Resulting from Direct Pay	1,840	1,793	1,761	1,758	1,750	1,751	
Total Nondefense Expenditures	322,596	327,416	334,109	340,423	346,766	353,185	
Total Output	337,065	341,716	348,269	354,389	360,759	367,574	
Government Industry Compensation	3,978	3,911	3,842	3,820	3,795	3,785	
LARG	LARGEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs. Computer and Engineering Services	2,225	2,191	2,128	2,103	2,080	2,124	
Aerospace	443	448	454	464	479	501	
Communications Services	420	420	422	418	400	461	
Communications Equipment and Electronic Components	336	332	332	334	334	344	
Construction	342	332	324	329	335	335	

Indirect Defense Purchases Resulting from Direct Purchases					
Research Labs. Computer and Engineering Services	1,645	1,656	1,663	1,643	1,667
Wholesale Trade	131	131	133	131	134
Automobile Repairs	111	111	113	107	111
Gas Utilities	108	101	96	68	81
Flectric Utilities	95	96	76	96	86

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	Massach	Massachusetts Summary	nary				
	Rounded to M	Rounded to Millions of 1999 dollars	9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	7,794	7,757	7,653	7,604	7.673	7,903	
Indirect Defense Purchases Resulting from Direct Purchases	4,445	4,453	4,455	4,369	4,440	4,669	
Indirect Defense Purchases Resulting from Direct Pay	1,101	1,069	1,043	1,036	1,025	1,019	
Total Nondefense Expenditures	387,647	393,270	401,955	409,966	417,663	425,586	
Total Output	400,984	406,546	415,106	422,974	430,801	439,177	
Government Industry Compensation	1,026	1,011	995	686	983	981	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	2,856	2,805	2,708	2,655	2.643	2.686	
Aerospace	1,573	1,595	1,609	1,641	1.702	1.780	
	692	695	685	681	689	711	
o Instruments	342	356	360	360	369	385	
Metal Products	255	254	265	276	287	302	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	2,111	2,120	2,116	2,075	2,118	2.216	
Communications Equipment and Electronic Components	356	358	360	365	375	396	
Finance and Insurance	206	206	208	199	203	218	
Wholesale Trade	185	186	188	186	189	203	
Aerospace	127	130	125	120	118	117	

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	Minne	Minnesota Summary	ıry				
	Rounded to M	Rounded to Millions of 1999 dollars	9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,516	2,522	2,561	2,594	2,633	2,757	
Indirect Defense Purchases Resulting from Direct Purchases	1,990	1,990	2,000	1,951	1,968	2,090	
Indirect Defense Purchases Resulting from Direct Pay	794	778	992	768	292	772	
Total Nondefense Expenditures	281,263	285,160	292,001	298,421	304,865	311,667	
Total Output	286,569	290,457	297,336	303,741	310,240	317,292	
Government Industry Compensation	460	455	449	447	444	443	
LARG	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Metal Products	823	836	882	926	926	1.038	
Research Labs, Computer and Engineering Services	362	356	344	337	332	337	
	315	316	313	307	304	311	
Other Electrical Equipment	84	82	81	82	81	85	
Aerospace	79	80	82	85	88	93	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	267	269	269	263	266	278	
Wholesale Trade	170	171	174	172	175	188	
Communications Equipment and Electronic Components	142	142	144	147	151	161	
Finance and Insurance	117	1117	117	112	114	122	
Printing and Publishing	108	107	106	104	104	110	

AGGREGATE MEASURES	0 2001 75 4,325 82 895 89 656 87 135,175 94 140,959	4,321	2003
AGGREGATE MEASURES		4,321	
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Total Output 1,510 1,467 1,467		137,284	139,497
Government Industry Compensation 1,510 1,491 1,467 LARGEST PURCHASES BY INDUSTRIAL SECTORS Total Direct Expenditures (Purchases and Pay) Ships and Boats Research Labs, Computer and Engineering Services 1,972 1,926 1,912 Medical Instruments and Supplies Aerospace 170 164 161 Aerospace 124 126 129 Construction 107 103 100 Indirect Defense Purchases Resulting from Direct Purchases Research Labs, Computer and Engineering Services 144 146 150 150		143,067	145,431
Total Direct Expenditures (Purchases and Pay) Ships and Boats Research Labs, Computer and Engineering Services Medical Instruments and Supplies Aerospace Construction Indirect Defense Purchases Resulting from Direct Purchases	57 1,460	1,450	1,446
1,972 1,926 1,9 rvices 195 193 1 170 164 1 124 126 1 107 103 1 rvices 144 146 1	ECTORS		
Ships and Boats 1,972 1,926 1,9 Research Labs, Computer and Engineering Services 195 193 1 Medical Instruments and Supplies 170 164 1 Aerospace 124 126 1 Construction 107 103 1 Indirect Defense Purchases Resulting from Direct Purchases 144 146 1 Research Labs, Computer and Engineering Services 144 146 1			
Research Labs, Computer and Engineering Services 195 193 1 Medical Instruments and Supplies 170 164 1 Aerospace 124 126 1 Construction 107 103 1 Indirect Defense Purchases Resulting from Direct Purchases 144 146 1 Research Labs, Computer and Engineering Services 144 146 1	12 1,950	1,931	1,941
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	Misso	Missouri Summary	A				
A THE	Kounded to M	Rounded to Millions of 1999 dollars	dollars	-			
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	6,474	6,461	6,440	6,473	6,565	191,9	
Indirect Defense Purchases Resulting from Direct Purchases	2,842	2,844	2,851	2,780	2,809	2,939	
Indirect Defense Purchases Resulting from Direct Pay	1,268	1,235	1,210	1,207	1,200	1,200	
Total Nondefense Expenditures	320,844	323,995	331,142	337,160	343,351	349,811	
Total Output	331,428	334,536	341,645	347,621	353,927	360,718	
Government Industry Compensation	1,941	1,913	1,882	1,872	1,860	1,855	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Aerospace	2,186	2,254	2,326	2,423	2.556	2.708	
Research Labs, Computer and Engineering Services	1,447	1,417	1,353	1,309	1,284	1,288	
Metal Products	186	173	184	188	187	193	
Construction	129	125	121	123	126	126	
Communications Services	82	82	80	78	74	82	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	1,070	1,071	1,057	1,023	1,029	1.062	
Aerospace	219	224	231	234	237	239	
Wholesale Trade	169	169	172	169	171	182	
Finance and Insurance	125	125	125	120	122	130	
Metal Products	112	114	1117	119	122	129	

	N	Ö					
	Rounded to Millions of 1999 dollars	Montana Summary ded to Millions of 1999 o	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	æs				Lamana de la caractería
Total Direct Expenditures (Purchases and Pay)	436	431	426	420	415	425	
Indirect Defense Purchases Resulting from Direct Purchases	223	222	222	213	213	231	
Indirect Defense Purchases Resulting from Direct Pay	215	209	205	204	202	201	
Total Nondefense Expenditures	35,348	35,715	36,428	37,014	37,623	38,256	
Total Output	36,221	36,578	37,281	37,851	38,453	39,113	
Government Industry Compensation	332	329	325	323	321	320	
LARGEST	SST PURCHASE	F PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	22	21	21	21	21	21	
Petroleum Refining	14	15	15	13	12	16	
Fuel Oil	13	13	13	12	11	14	
Electric Utilities	10	10	10	10	10	10	
Trucking and Highway Passenger Transit	9	9	9	4	5	ς.	
Indirect Defense Purchases Resulting from Direct Purchases							
	24	24	24	22	20	24	
Wholesale Trade	20	20	21	20	21	22	
Crude Oil	15	15	14	13	12	14	
Finance and Insurance	13	13	13	13	13	14	
Other Nonferrous Metals	13	13	13	13	13	14	

		Nebras	Nebraska Summary	<u>F</u>				
		Rounded to M	Rounded to Millions of 1999 dollars	o dollars				
		1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES	110000000000000000000000000000000000000			
Total	Total Direct Expenditures (Purchases and Pay)	1,176	1,163	1,145	1,134	1,113	1,145	
Indire	Indirect Defense Purchases Resulting from Direct Purchases	599	595	865	583	588	626	
Indire	Indirect Defense Purchases Resulting from Direct Pay	467	455	446	444	442	442	
Total	Total Nondefense Expenditures	97,119	98,209	100,353	102,160	104,090	106,085	
Total	Total Output	99,361	100,423	102,542	104,322	106,232	108,298	
Gover	Government Industry Compensation	798	789	777	775	692	191	
	LARGEST	r Purchase	PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total	Total Direct Expenditures (Purchases and Pay)							
×	Research Labs, Computer and Engineering Services	147	145	142	143	141	146	
Œ	Food and Tobacco	95	94	92	84	70	95	
	Construction	42	41	40	40	41	41	
O 114	Computers	14	14	14	14	14	14	
	Aerospace	13	13	13	13	13	13	
Indire	Indirect Defense Purchases Resulting from Direct Purchases							
24	Research Labs, Computer and Engineering Services	109	110	111	112	113	120	
 	Wholesale Trade	57	57	58	57	57	61	
Ξ.	Finance and Insurance	50	50	50	48	49	52	
Ö	Communications Equipment and Electronic Components	52	49	48	47	47	49	
Ö	Communications Services	33	33	33	33	33	36	

	Nevad	Nevada Summary					
	Rounded to Millions of 1999 dollars	llions of 1999	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREGA	AGGREGATE MEASURES	VES				
Total Direct Expenditures (Purchases and Pay)	1,169	1,155	1,143	1,136	1,131	1,137	
Indirect Defense Purchases Resulting from Direct Purchases	414	414	417	407	413	438	
Indirect Defense Purchases Resulting from Direct Pay	770	759	747	746	743	745	
Total Nondefense Expenditures	77,357	79,472	81,946	84,083	86,375	88,921	
Total Output	79,709	81,799	84,252	86,372	88,662	91,241	
Government Industry Compensation	873	298	857	854	848	846	
LARGEST	IT PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	106	104	102	102	101	104	
Construction	99	54	52	53	54	54	
Metal Products	34	31	33	33	33	33	
Communications Equipment and Electronic Components	20	19	19	50	19	20	
Water and Sanitation	16	16	16	16	15	16	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	78	79	80	80	81	85	
Nonferrous Metals Mining	51	52	52	52	53	55	
Wholesale Trade	28	28	29	29	29	31	
Communications Services	24	23	23	23	23	24	
Construction	21	22	22	21	21	22	

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	New Ham	New Hampshire Summary	nary				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG,	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	793	784	775	691	768	785	
Indirect Defense Purchases Resulting from Direct Purchases	474	475	478	472	481	508	
Indirect Defense Purchases Resulting from Direct Pay	238	232	227	226	225	224	
Total Nondefense Expenditures	59,586	995,09	61,755	63,051	64,317	65,597	
Total Output	61,091	61,857	63,234	64,518	65,790	67,114	
Government Industry Compensation	283	280	277	276	275	274	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Communications Equipment and Electronic Components	163	160	156	154	153	156	
Research Labs, Computer and Engineering Services	93	91	88	87	98	87	
Instruments	64	64	64	. 64	65	99	
Other Nonelectrical Machinery	26	29	30	31	32	34	
Construction	28	26	26	26	27	27	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	69	69	69	89	69	72	
Communications Equipment and Electronic Components	62	62	63	65	29	7.1	
Other Nonferrous Metals	30	30	31	31	32	34	
Wholesale Trade	27	27	27	27	27	28	
Finance and Insurance	24	24	24	23	23	24	
					! 	I	

		New Je	New Jersey Summary	ľ				
		Rounded to M	Rounded to Millions of 1999 dollars	dollars				
		1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES				
Tot	Total Direct Expenditures (Purchases and Pay)	6,011	5,917	5,847	5,635	5,724	5,942	
Ind	Indirect Defense Purchases Resulting from Direct Purchases	3,683	3,677	3,706	3,632	3,702	3,965	
Ind	Indirect Defense Purchases Resulting from Direct Pay	1,482	1,441	1,407	1,399	1,388	1,384	
Tot	Total Nondefense Expenditures	468,639	474,055	483,682	492,634	501,455	510,669	
Tot	Total Output	479,814	485,089	494,642	503,302	512,270	521,960	
Ğ	Government Industry Compensation	1,750	1,720	1,689	1,679	1,668	1,664	
	LARGES	ST PURCHASI	T PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
To	Total Direct Expenditures (Purchases and Pay)							
	Research Labs, Computer and Engineering Services	1,348	1,329	1,317	1,340	1,375	1,441	
	Water Transportation	512	505	501	394	442	447	
	Communications Equipment and Electronic Components	370	365	355	348	349	356	
11	Aerospace	345	339	326	318	318	323	
7	Instruments	260	266	263	260	264	273	

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> Communications Services Finance and Insurance

Wholesale Trade Other Chemicals

Indirect Defense Purchases Resulting from Direct Purchases Research Labs, Computer and Engineering Services

	New Me	New Mexico Summary	ıry				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG,	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,353	2,320	2,277	2,241	2,212	2,253	
Indirect Defense Purchases Resulting from Direct Purchases	930	940	946	922	922	994	
Indirect Defense Purchases Resulting from Direct Pay	631	615	604	602	009	601	
Total Nondefense Expenditures	81,558	82,872	84,892	86,550	88,376	90,450	
Total Output	85,473	86,747	88,719	90,314	92,110	94,299	
Government Industry Compensation	1,345	1,329	1,308	1,303	1,293	1,290	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	456	448	432	421	414	418	
Construction	142	138	134	136	139	139	
Finance and Insurance	58	58	58	55	48	64	
Aerospace 11	57	57	57	57	58	09	
Communications Equipment and Electronic Components	55	54	55	55	55	57	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	337	339	337	329	331	345	
Communications Equipment and Electronic Components	114	123	130	136	144	156	
Crude Oil	114	114	114	103	92	114	
Wholesale Trade	31	31	31	31	31	33	
Petroleum Refining	28	28	28	26	25	30	

	1998	1999	2000	2001	2002	2003
	AGGREG	AGGREGATE MEASURES	RES			
Total Direct Expenditures (Purchases and Pay)	7,984	7,924	7,871	7,728	7,781	8,026
Indirect Defense Purchases Resulting from Direct Purchases	5,933	5,915	5,936	5,782	5,862	6,195
Indirect Defense Purchases Resulting from Direct Pay	2,580	2,499	2,428	2,403	2,370	2,349
Total Nondefense Expenditures	934,297	941,637	988,086	972,118	986,403	1,001,466
Total Output	950,795	921,976	974,324	988,034	1,002,419	1,018,039
Government Industry Compensation	1,955	1,929	1,898	1,890	1,876	1,871
LARGE	LARGEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUS	FRIAL SECT	ORS		
Total Direct Expenditures (Purchases and Pay)						
Research Labs, Computer and Engineering Services	1,083	1,064	1,035	1,028	1,033	1,061
Aerospace	1,011	1,021	1,030	1,052	1,088	1,136
Communications Equipment and Electronic Components	896	953	925	200	906	925
Instruments	729	774	794	801	828	871
Metal Products	424	421	441	457	474	498
Indirect Defense Purchases Resulting from Direct Purchases						
Research Labs, Computer and Engineering Services	801	804	808	804	828	875
Finance and Insurance	743	744	757	728	744	262
Wholesale Trade	522	519	522	512	216	550
Communications Equipment and Electronic Components	366	369	375	384	396	422
Instruments	291	295	291	286	287	294

	North Ca	North Carolina Summary	mary				
	Rounded to M	Rounded to Millions of 1999 dollars	9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	6,413	6,323	6,226	6,125	6,112	6,165	
Indirect Defense Purchases Resulting from Direct Purchases	2,700	2,701	2,723	2,641	2,697	2,862	
Indirect Defense Purchases Resulting from Direct Pay	2,392	2,334	2,295	2,294	2,288	2,293	
Total Nondefense Expenditures	415,315	421,368	432,184	442,055	451,485	461,379	
Total Output	426,828	432,736	443,439	453,126	462,591	472,707	
Government Industry Compensation	4,717	4,671	4,600	4,585	4,548	4,536	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	267	261	255	257	265	267	
Research Labs, Computer and Engineering Services	242	237	229	226	222	226	
Instruments	104	104	103	103	103	105	
Wholesale Trade	105	104	100	94	89	96	
Trucking and Highway Passenger Transit	85	83	85	26	70	72	
Indirect Defense Purchases Resulting from Direct Purchases							
Wholesale Trade	208	210	214	212	216	231	
Textiles (Except Knitting)	183	179	178	155	165	175	
Research Labs, Computer and Engineering Services	179	179	179	177	178	186	
Communications Equipment and Electronic Components	174	173	172	174	178	189	
Other Chemicals	145	146	148	146	148	158	

	North Da Rounded to Mi	North Dakota Summary Rounded to Millions of 1999 dollars	ary dollars				
	1998	6661	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	706	269	689	685	689	869	
Indirect Defense Purchases Resulting from Direct Purchases	216	215	215	206	205	222	
Indirect Defense Purchases Resulting from Direct Pay	249	242	238	237	236	236	
Total Nondefense Expenditures	30,850	31,114	31,775	32,343	32,934	33,516	
Total Output	32,021	32,267	32,917	33,472	34,064	34,672	
Government Industry Compensation	475	470	462	461	456	455	
T	LARGEST PURCHASE	T PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	63	61	09	61	62	62	
Communications Services	62	61	63	<i>L</i> 9	71	9/	
Electric Utilities	27	27	27	28	28	29	
Trucking and Highway Passenger Transit	13	12	13	∞	10	11	
Apparel and Household Textiles	12	12	12	6	10		
Indirect Defense Purchases Resulting from Direct Purchases	ISES						
Electric Utilities	34	34	35	34	35	37	
Crude Oil	32	32	31	28	25	31	
	23	23	23	23	23	24	
Gas Utilities	14	13	13	13	13	14	
Finance and Insurance	12	12	12	_	11	12	

	Ohi	Ohio Summary					
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	6,662	6,544	6,536	6,479	6,494	6,722	
Indirect Defense Purchases Resulting from Direct Purchases	5,059	5,045	5,067	4,960	4,999	5,290	
Indirect Defense Purchases Resulting from Direct Pay	2,177	2,117	2,070	2,059	2,042	2,036	
Total Nondefense Expenditures	666,920	673,028	688,267	701,366	714,267	726,993	
Total Output	680,820	686,736	701,943	714,867	727,805	741,042	
Government Industry Compensation	2,925	2,872	2,820	2,802	2,785	2,778	
LARGE	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	982	<i>L</i> 96	939	925	913	931	
Aerospace	840	850	863	885	915	957	
	350	340	358	387	427	475	
Trucking and Highway Passenger Transit	170	166	168	112	139	143	
Other Nonelectrical Machinery	150	162	168	171	175	186	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	726	731	734	723	732	768	
Ferrous Metals	422	413	417	420	423	435	
Metal Products	393	393	403	407	415	436	
Wholesale Trade	323	322	325	319	321	340	
Other Chemicals	262	264	265	260	264	282	

	Oklaho Rounded to M	Oklahoma Summary Rounded to Millions of 1999 dollars	y dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	ŒS				
Total Direct Expenditures (Purchases and Pay)	3,430	3,388	3,342	3,305	3,285	3,345	
Indirect Defense Purchases Resulting from Direct Purchases	1,857	1,852	1,856	1,775	1,749	1,930	
Indirect Defense Purchases Resulting from Direct Pay	1,145	1,114	1,093	1,090	1,083	1,082	
Total Nondefense Expenditures	178,677	180,086	183,597	186,820	190,100	193,305	
Total Output	185,110	186,441	189,889	192,991	196,219	199,663	
Government Industry Compensation	2,529	2,494	2,452	2,441	2,423	2,417	
LARG	LARGEST PURCHASES BY INDUSTRIAL SECTORS	ES BY INDUST	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs. Computer and Engineering Services	219	217	213	213	211	218	
Construction	170	165	191	164	167	167	
	147	148	152	158	163	170	
Detroleum Refining	99	<i>L</i> 9	99	61	54	73	
Fuel Oil	28	28	58	53	47	63	
Indirect Defense Purchases Resulting from Direct Purchases							
Crude Oil	410	405	398	362	326	403	
Automobile Benairs	241	242	245	232	241	255	
Research Labs. Computer and Engineering Services	162	164	166	167	169	180	
Petroleum Refining	127	126	125	114	106	127	
Wholesale Trade	74	74	75	74	75	80	

		Orego	Oregon Summary					
		Rounded to M	Rounded to Millions of 1999 dollars	dollars				
		8661	6661	2000	2001	2002	2003	
		AGGREG,	AGGREGATE MEASURES	RES				
	Total Direct Expenditures (Purchases and Pay)	763	752	742	736	732	737	
	Indirect Defense Purchases Resulting from Direct Purchases	1,047	1,061	1,077	1,064	1,087	1,160	
	Indurect Defense Purchases Resulting from Direct Pay	574	529	548	547	544	544	
	I of all Nondefense Expenditures	174,216	176,525	180,828	184,629	188,373	192,246	
	I otal Output	176,605	178,903	183,202	186,982	190,741	194,692	
	Government Industry Compensation	267	561	555	553	550	548	
	LARGEST	GEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECTO	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Construction	31	29	28	28	29	59	
	Research Labs, Computer and Engineering Services	25	25	24	23	22	55	
	Computers	22	22	21	20	18	18	
	Instruments	16	17	17	17	18	18	
	Communications Equipment and Electronic Components	12	12	12	12	12	12	
124	Indirect Defense Purchases Resulting from Direct Purchases							
ļ	Communications Equipment and Electronic Components	239	252	263	273	289	311	
	Wholesale Trade	86	86	100	66	100	108	
	Finance and Insurance	69	69	69	99	<i>L</i> 9	71	
	Other Nonferrous Metals	62	63	64	65	29	70	
	Lumber	46	45	45	4	4	46	

	Pennsylv	Pennsylvania Summary	ary				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	6,640	6,521	6,448	6,349	6,283	6,459	
Indirect Defense Purchases Resulting from Direct Purchases	4,832	4,809	4,826	4,699	4,735	5,023	
Indirect Defense Purchases Resulting from Direct Pay	2,212	2,155	2,108	2,100	2,085	2,081	
Total Nondefense Expenditures	661,700	667,232	679,688	690,805	701,643	712,839	
Total Output	675,386	680,717	693,072	703,955	714,748	726,402	
Government Industry Compensation	2,824	2,771	2,723	2,704	2,689	2,682	
LARGEST		FURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Exnenditures (Purchases and Pav)							
Research Labs. Computer and Engineering Services	889	873	841	822	808	818	
Metal Products	861	845	880	806	933	926	
Aerospace	268	273	279	288	300	316	
Fire Oil	248	229	199	164	06	66	
	217	228	225	213	218	228	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs. Computer and Engineering Services	657	099	657	642	648	674	
Ferrons Metals	404	396	399	401	403	415	
Wholesale Trade	315	315	319	314	318	339	
Petroleum Refining	301	296	291	263	244	291	
Communications Equipment and Electronic Components	267	270	278	287	298	316	

	Rhode Is	Rhode Island Summary	arv				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG,	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	1,655	1,668	1,645	1,611	1,609	1.650	
Indirect Defense Purchases Resulting from Direct Purchases	443	445	452	448	459	489	
Indirect Defense Purchases Resulting from Direct Pay	277	270	265	264	263	263	
Total Nondefense Expenditures	51,576	52,129	53,175	54,048	54,913	55,777	
Total Output	53,952	54,513	55,537	56,372	57,245	58,180	
Government Industry Compensation	530	522	512	510	206	505	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	RS			
Total Direct Expenditures (Purchases and Pay)							
Medical Instruments and Supplies	200	532	526	513	519	542	
Research Labs, Computer and Engineering Services	251	249	247	251	255	266	
	100	105	107	107	110	115	
Communications Services	75	69	62	55	39	38	
Construction	45	44	43	44	44	44	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	186	188	193	196	204	220	
Other Nonferrous Metals	29	29	30	30	31	32	
Wholesale Trade	25	25	25	24	25	26	
Finance and Insurance	21	21	21	20	20	22	
Metal Products	19	19	19	19	20	21	

	South Ca	South Carolina Summary	nary				
	Rounded to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	4,082	4,026	3,980	3,816	3,845	3,912	
Indirect Defense Purchases Resulting from Direct Purchases	1,500	1,496	1,503	1,461	1,489	1,579	
Indirect Defense Purchases Resulting from Direct Pay	1,240	1,209	1,187	1,186	1,181	1,182	
Total Nondefense Expenditures	210,230	213,341	218,327	223,244	227,765	232,536	
Total Output	217,052	220,072	224,999	229,709	234,283	239,211	
Government Industry Compensation	2,561	2,536	2,500	2,491	2,473	2,466	
LARGEST		T PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Railroads	357	349	353	233	290	297	
Research Labs, Computer and Engineering Services	236	229	220	218	215	218	
Construction	173	168	164	167	170	170	
Finance and Insurance	91	92	92	98	92	101	
	89	71	74	77	82	87	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	175	173	172	170	172	180	
Other Chemicals	164	165	166	164	166	177	
Textiles (Except Knitting)	132	129	128	111	118	126	
Wholesale Trade	75	75	77	75	92	81	
Communications Equipment and Electronic Components	69	70	71	73	77	83	

	South Da	South Dakota Summary	ary				
	Rounded to M	ounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	755	758	847	854	815	852	
Indirect Defense Purchases Resulting from Direct Purchases	1,826	2,111	2,435	2,499	2,356	2,567	
Indirect Defense Purchases Resulting from Direct Pay	183	178	175	174	173	173	
Total Nondefense Expenditures	34,860	35,328	36,253	37,049	37,828	38,634	
Total Output	37,625	38,375	39,710	40,576	41,172	42,225	
Government Industry Compensation	288	285	281	280	278	277	
LARGEST	EST PURCHASE	PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Real Estate	334	345	438	454	418	449	
Construction	25	25	24	25	25	25	
Medical Instruments and Supplies	17	17	17	12	14	14	
Research Labs, Computer and Engineering Services	16	16	15	15	15	15	
Communications Equipment and Electronic Components	12	13	13	13	13	14	
Indirect Defense Purchases Resulting from Direct Purchases				-			
Real Estate	1,559	1,843	2,164	2,231	2,091	2.286	
Communications Equipment and Electronic Components	39	39	40	42	44	47	
Automobile Repairs	32	30	27	27	21	21	
Wholesale Trade	21	21	21	21	21	22	
Non-Competitive Imports	16	18	21	21	20	22	

		Tennes	Tennessee Summary	2				
		Rounded to M	Rounded to Millions of 1999 dollars	dollars			***************************************	
		1998	1999	2000	2001	2002	2003	
		AGGREG	AGGREGATE MEASURES	RES				
Τ	Total Direct Expenditures (Purchases and Pay)	3,172	3,118	3,089	2,862	2,923	2,974	Š
À	Indirect Defense Purchases Resulting from Direct Purchases	1,909	1,914	1,923	1,864	1,888	1,991	
Ä	Indirect Defense Purchases Resulting from Direct Pay	1,004	981	962	961	955	926	
Ţ	Total Nondefense Expenditures	296,932	301,108	309,552	316,869	323,974	330,943	
Ţ	Total Output	303,033	307,138	315,548	322,575	329,758	336,880	
Ğ	Government Industry Compensation	1,243	1,232	1,219	1,214	1,207	1,204	
	LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
Ĕ	Total Direct Expenditures (Purchases and Pay)							
	Air Transportation	749	741	748	601	673	889	
	Research Labs, Computer and Engineering Services	413	403	383	368	359	358	
	Apparel and Household Textiles	201	195	193	148	163	176	
	Metal Products	102	94	66	101	66	102	
12	Other Chemicals	98	85	98	85	81	06	
	Indirect Defense Purchases Resulting from Direct Purchases							
	Research Labs, Computer and Engineering Services	305	305	299	288	288	295	
	Wholesale Trade	155	155	157	155	157	168	
	Other Chemicals	153	153	154	151	152	162	
	Metal Products	130	131	135	137	140	147	
	Other Nonferrous Metals	104	105	106	108	111	116	

		Tex	Texas Summary	Λ				
• 1		Rounded to N	Rounded to Millions of 1999 dollars	9 dollars				
.,		1998	1999	2000	2001	2002	2003	
		AGGREC	AGGREGATE MEASURES	JRES				
	Total Direct Expenditures (Purchases and Pay)	20,515	20,324	20,130	19,767	19,666	20,462	
	Indirect Defense Purchases Resulting from Direct Purchases	11,609	11,635	11,663	11,220	11,141	12,202	
	Indirect Defense Purchases Resulting from Direct Pay	5,265	5,132	5,038	5,027	5,000	5,001	
	Total Nondefense Expenditures	1,067,257	1,080,338	1,103,639	1,124,325	1,144,784	1,166,032	
	Total Output	1,104,646	1,117,430	1,140,473	1,160,342	1,180,592	1,203,699	
-	Government Industry Compensation	9,578	9,473	9,334	9,297	9,230	9,206	
	LARGEST		PURCHASES BY INDUSTRIAL SECTORS	TRIAL SECT	ORS			
	Total Direct Expenditures (Purchases and Pay)							
	Aerospace	3,002	3,023	3,039	3,090	3,178	3,308	
	Research Labs, Computer and Engineering Services	2,100	2,064	1,999	1,969	1,955	1,992	
	Petroleum Refining	850	858	856	785	<i>L</i> 69	936	
L30	Fuel Oil	759	191	764	700	621	835	
)	Construction	720	969	089	689	703	703	
•	Indirect Defense Purchases Resulting from Direct Purchases							
	Crude Oil	1,887	1,870	1,845	1,680	1,511	1,874	
	Research Labs, Computer and Engineering Services	1,552	1,561	1,562	1,539	1,567	1,643	
	Petroleum Refining	1,058	1,052	1,044	949	883	1,057	
	Communications Equipment and Electronic Components	877	917	951	985	1,031	1,108	
	Wholesale Trade	516	516	522	514	520	554	

	Utah Rounded to M	Utah Summary Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	2,002	1,956	1,919	1,887	1,872	1,926	
Indirect Defense Purchases Resulting from Direct Purchases	1,052	1,055	1,055	1,032	1,044	1,106	
Indirect Defense Purchases Resulting from Direct Pay	574	559	548	547	544	543	
Total Nondefense Expenditures	124,035	125,801	128,283	130,683	133,111	135,543	
Total Output	127,666	129,373	131,808	134,151	136,572	139,120	
Government Industry Compensation	1,142	1,120	1,100	1,093	1,086	1,083	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	777	267	256	254	255	259	
Metalworking Machinery	93	84	81	9/	92	78	
Construction	78	9/	74	75	77	77	
Petroleum Refining	62	63	63	57	51	89	
Fuel Oil	57	28	57	53	47	63	
☐ Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	205	202	200	199	204	213	
Aerospace	126	131	127	123	123	124	
Communications Equipment and Electronic Components	75	78	81	82	85	16	
Wholesale Trade	55	55	56	55	56	09	
Petroleum Refining	54	54	54	49	46	55	

	Vermo	Vermont Summary	A				
	Rounded to Mi	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG/	AGGREGATE MEASURES	SES				
Total Direct Expenditures (Purchases and Pay)	192	192	192	192	194	198	
Indirect Defense Purchases Resulting from Direct Purchases	251	256	262	262	268	285	
Indirect Defense Purchases Resulting from Direct Pay	115	113	111	110	110	110	
Total Nondefense Expenditures	29,652	30,222	31,086	31,858	32,603	33,384	
Total Output	30,211	30,784	31,650	32,423	33,175	33,978	
Government Industry Compensation	104	103	102	102	101	101	
LARGEST		PURCHASES BY INDUSTRIAL SECTORS	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Metal Products	25	26	27	29	31	33	
Aerospace	20	20	21	21	22	23	
	20	20	19	18	18	17	
ω Electric Industrial Appliances and Distribution Equipment	4	4	4	4	4	5	
Construction	4	4	4	4	4	4	
Indirect Defense Purchases Resulting from Direct Purchases							
Communications Equipment and Electronic Components	94	100	105	109	114	122	
Aerospace	16	16	16	16	15	16	
Research Labs, Computer and Engineering Services	15	15	15	14	14	14	
Wholesale Trade	15	15	15	15	15	16	
Finance and Insurance	10	10	10	6	10	10	

	Virgin	Virginia Summary	y 1-11-11-11-11-11-11-11-11-11-11-11-11-1				
	Konnaea to M	Rounded to Millions of 1999 dollars	dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG,	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	24,883	24,456	24,092	23,421	23,427	23,799	
Indirect Defense Purchases Resulting from Direct Purchases	6,692	6,710	6,745	6,495	6,647	7,011	
Indirect Defense Purchases Resulting from Direct Pay	5,055	4,924	4,839	4,833	4,812	4,816	
Total Nondefense Expenditures	536,564	546,169	558,303	569,707	580,000	590,576	
Total Output	573,151	582,213	593,957	604,435	614,868	626,185	
Government Industry Compensation	13,420	13,220	12,990	12,926	12,832	12,799	
				Ç Ç			

LARGEST PURCHASES BY INDUSTRIAL SECTORS

Total Direct Expenditures (Purchases and Pay)						
Research Labs, Computer and Engineering Services	4,636	4,570	4,459	4,430	4,374	4,483
Ships and Boats	1,065	1,040	1,030	1,048	1,038	1,044
Nonautomotive Repair Services, Hotels, and Lodging	1,051	1,026	1,030	700	854	872
Communications Services	742	740	747	746	726	829
Computers	290	584	582	585	574	298
Indirect Defense Purchases Resulting from Direct Purchases						
Research Labs, Computer and Engineering Services	3,427	3,455	3,484	3,462	3,505	3,698
Nonautomotive Repair Services, Hotels, and Lodging	936	925	929	787	871	912
Real Estate	256	243	230	217	222	234
Wholesale Trade	151	152	154	152	154	164
Communications Services	146	147	148	147	148	159

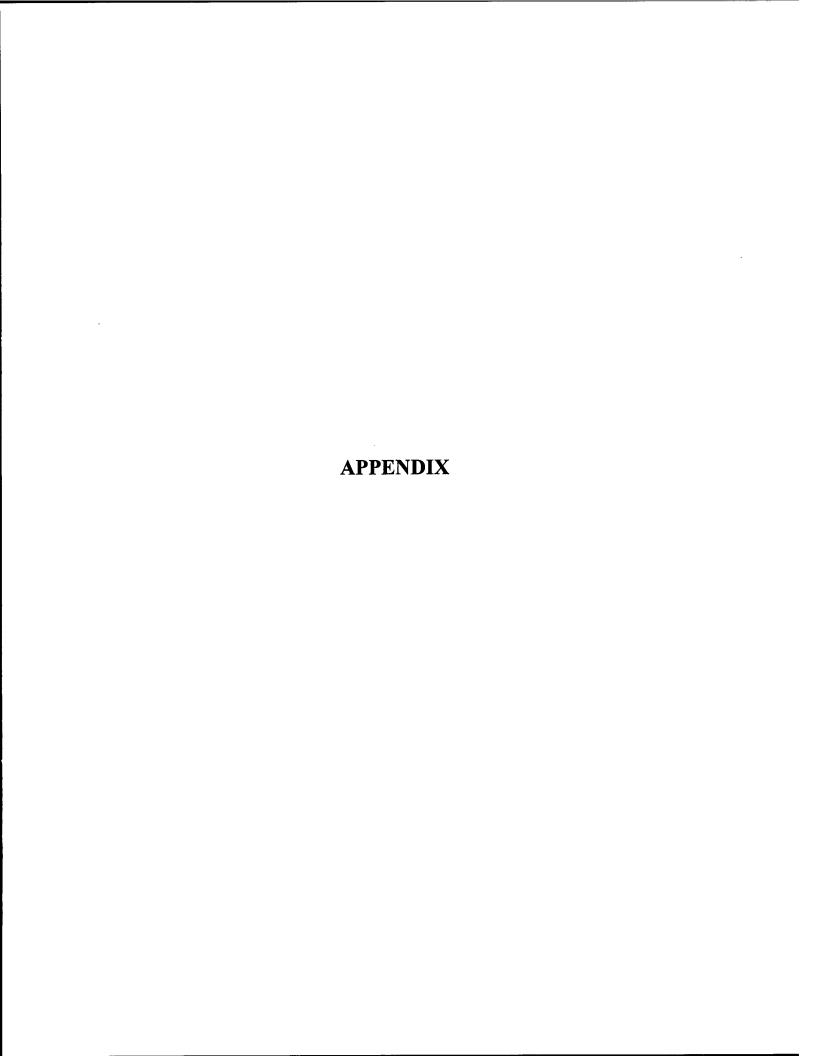
W asnington Summary Rounded to Millions of 1999 dollars 1998 1999 2000 AGGREGATE MEASURES 7,018 2,989 2,928 2,976 2,989 2,029 1,979 1,944 315,942 320,823 327,864 3 328,147 332,933 339,843 3 4,420 4,365 4,296 PURCHASES BY INDUSTRIAL SECTORS	dollars 2000 2000 32,989 1,944 327,864 339,843 4,296	2001 6,901 2,922 1,941 334,249 346,036 4,277	2002 6,851 2,941 1,931 340,414 352,156 4,247	2003 7,044 3,097 1,932 346,969 359,059
GATE MEASUJ 7,128 2,976 1,979 320,823 332,933 4,365	2000 RES 7,018 2,989 1,944 327,864 339,843 4,296 RIAL SECTO	1 11 60 21	2002 6,851 2,941 1,931 340,414 352,156 4,247	2003 7,044 3,097 1,932 346,969 359,059
GATE MEASUJ 7,128 2,976 1,979 320,823 332,933 4,365 ES BY INDUST	7,018 2,989 1,944 327,864 339,843 4,296	1 10 21	6,851 2,941 1,931 340,414 352,156 4,247	7,044 3,097 1,932 346,969 359,059 4,236
7,128 2,976 1,979 320,823 332,933 4,365	7,018 2,989 1,944 327,864 339,843 4,296	tu zi	6,851 2,941 1,931 340,414 352,156 4,247	7,044 3,097 1,932 346,969 359,059 4,236
2,976 1,979 320,823 332,933 4,365 SES BY INDUST	2,989 1,944 327,864 339,843 4,296	(r) VI	2,941 1,931 340,414 352,156 4,247	3,097 1,932 346,969 359,059 4,236
1,979 320,823 332,933 4,365 SES BY INDUST	1,944 327,864 339,843 4,296 RIAL SECTO	(L) ZI	1,931 340,414 352,156 4,247	1,932 346,969 359,059 4,236
320,823 332,933 4,365 SES BY INDUST	327,864 339,843 4,296 RIAL SECTO	(L) ZI	340,414 352,156 4,247	346,969 359,059 4,236
332,933 4,365 SES BY INDUST	339,843 4,296 RIAL SECTO	₹ T	352,156	359,059
4,365 SES BY INDUST	4,296 RIAL SECTO		4,247	4,236
SES BY INDUST	RIAL SECTO	Sac		
288	575	577	579	597
435	437	445	459	478
306	296	290	292	299
240	238	218	191	257
227	220	223	229	228
656	961	947	948	963
445	450	451	464	492
166	169	167	170	181
115	115	105	66	119
111	112	114	117	123
588 435 306 240 227 959 445 111	575 437 296 238 220 961 450 115			577 445 290 218 223 947 451 167 105

	West Viry Rounded to Mi	West Virginia Summary Rounded to Millions of 1999 dollars	ary dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG/	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	433	424	417	409	409	414	
Indirect Defense Purchases Resulting from Direct Purchases	594	591	593	579	280	617	
Indirect Defense Purchases Resulting from Direct Pay	275	267	261	259	257	256	
Total Nondefense Expenditures	80,693	81,363	82,877	84,303	85,687	87,126	
Total Output	81,995	82,645	84,147	85,550	86,933	88,414	
Government Industry Compensation	285	282	278	277	275	275	
LARGE	LARGEST PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Construction	63	59	57	58	09	09	
Medical Instruments and Supplies	21	20	20	14	17	17	
Research Labs, Computer and Engineering Services	15	15	14	14	14	14	
్లు Wholesale Trade	12	12	12	11	10	13	
Aerospace	6	∞	∞	∞	∞	6	
Indirect Defense Purchases Resulting from Direct Purchases						•	
Coal Mining	80	80	81	80	80	83	
Other Chemicals	9/	9/	9/	74	75	80	
Ferrous Metals	70	69	70	11	72	75	
Other Nonferrous Metals	40	40	41	42	43	46	
Crude Oil	38	37	37	33	30	36	

	Wiscon	Wisconsin Cummon					
	Rounded to N	Rounded to Millions of 1999 dollars	ry 9 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGREG	AGGREGATE MEASURES	RES				
Total Direct Expenditures (Purchases and Pay)	1,078	1,018	1,045	1,030	1,016	1,054	
Indirect Defense Purchases Resulting from Direct Purchases	1,811	1,807	1,819	1,777	1,796	1,899	
Indirect Defense Purchases Resulting from Direct Pay	784	191	754	754	751	751	
Total Nondefense Expenditures	314,090	317,129	324,404	330,778	336,812	342,901	
Total Output	317,766	320,725	328,027	334,344	340,378	346,609	
Government Industry Compensation	488	482	476	474	471	470	
LARGEST	_	PURCHASES BY INDUSTRIAL SECTORS	FRIAL SECT	ORS			
Total Direct Expenditures (Purchases and Pay)							
Metal Products	79	92	80	83	84	87	
Research Labs, Computer and Engineering Services	64	63	62	61	61	62	
Construction	48	46	45	45	47	46	
Other Nonelectrical Machinery	39	39	39	39	37	42	
Food and Tobacco	39	39	38	35	29	39	
Indirect Defense Purchases Resulting from Direct Purchases							
Metal Products	172	172	176	177	180	189	
Wholesale Trade	149	150	152	150	152	163	
Paper	149	148	146	141	141	150	
Finance and Insurance	122	121	121	116	118	125	
Printing and Publishing	86	76	26	94	95	66	

	Wyoming Summary Rounded to Millions of 1999 dollars	Wyoming Summary	y dollars				
	1000	1000	0000	2001	2002	2003	
	1998	1999	2000	2001	7007	5007	
	AGGREG/	AGGREGATE MEASURES	LES				
Total Direct Expenditures (Purchases and Pay)	351	348	343	338	332	345	
Indirect Defense Purchases Resulting from Direct Purchases	276	274	273	257	248	280	
Indirect Defense Purchases Resulting from Direct Pay	151	147	145	144	143	143	
Total Nondefense Expenditures	25,601	25,743	26,204	26,609	27,034	27,463	
Total Output	26,380	26,513	26,965	27,347	27,757	28,231	
Government Industry Compensation	258	255	251	251	249	248	
LARGES	T PURCHASES BY INDUSTRIAL SECTORS	S BY INDUST	RIAL SECTO	ORS			
Total Direct Expenditures (Purchases and Pay)							
Petroleum Refining	24	24	24	22	20	26	
Construction	23	23	22	23	23	23	
Fuel Oil	22	22	22	20	18	24	
Electric Utilities	5	5	5	9	9	9	
Research Labs, Computer and Engineering Services	\$	5	\$	S	2	ν,	
Indirect Defense Purchases Resulting from Direct Purchases							
Crude Oil	87	98	82	78	70	98	
Petroleum Refining	42	42	42	38	36	43	
Coal Mining	21	21	21	21	21	22	
Natural Gas	6	6	6	6	6	6	
Wholesale Trade	6	6	6	6	6	10	

	Entire Uni	Entire United States Summary	ummary				
	Rounded to	Rounded to Millions of 1999 dollars	99 dollars				
	1998	1999	2000	2001	2002	2003	
	AGGRE	AGGREGATE MEASURES	URES				
Total Direct Expenditures (Purchases and Pay)	267,400	264,326	261,929	258,099	258,416	265,623	
Indirect Defense Purchases Resulting from Direct Purchases	126,147	126,347	126,888	123,464	124,433	132,512	
Indirect Defense Purchases Resulting from Direct Pay	68,223	66,476	65,176	65,000	64,612	64,566	
Total Nondefense Expenditures	14,883,695	15,062,923	15,395,383	15,691,073	15,980,062	16,278,203	
Total Output	15,345,465	15,520,072	15,849,377	16,137,636	16,427,522	16,740,904	
Government Industry Compensation	116,380	114,876	113,074	112,563	111,771	111,480	
LAR	LARGEST PURCHAS	SES BY INDU	PURCHASES BY INDUSTRIAL SECTORS	FORS			
Total Direct Expenditures (Purchases and Pay)							
Research Labs, Computer and Engineering Services	35,056	34,450	33,439	33,050	32,801	33,499	
Aerospace	30,309	30,485	30,484	30,860	31,722	32,971	
Ships and Boats	8,387	8,184	8,140	8,305	8,229	8,279	
Communications Equipment and Electronic Components	7,865	7,810	7,700	7,656	7,685	7,902	
Construction	7,566	7,302	7,112	7,207	7,371	7,364	
Indirect Defense Purchases Resulting from Direct Purchases							
Research Labs, Computer and Engineering Services	25,912	26,046	26,130	25,830	26,285	27,631	
Wholesale Trade	7,278	7,290	7,384	7,280	7,371	7,868	
Communications Equipment and Electronic Components	6,764	6,897	7,027	7,206	7,474	7,981	
Finance and Insurance	5,687	5,672	5,700	5,450	5,540	5,907	
Real Estate	5,634	5,598	5,585	5,394	5,402	5,750	



	National	SIC Classification	State Level	
# pui	Industry Title	Classification Code(s)	sec# Industrial Sector Title	litle
_	Dairy Farm Products	241	1 Agriculture, Forestry, and Fisheries	ies
2	Poultry and Eggs	250 -254		
3	Meat Animals and Other Livestock	210 270		
4				
S.		111 112 115 118 pt 119 pt 139		
9		132		
7		pt 119 133 134 pt 139 170 173 179		
x		800 -850 970		
10	Fishery Products Agriculture, Forestry, and Fishery Services	910 pt 180 254 700 780 850 920		
:		701010101		
=	iron Ores	1010 1000	z Iron Ores	
12	Copper Ore Other Nonferrous Orac	1020 1030 1040 1050 1080 1090	3 Nonferrous Metals Mining	
3		0.01 0.01 0.01 0.01		
14	Coal Mining	1200	4 Coal Mining	
15	Natural Gas Extraction	1312	5 Natural Gas	
16	Crude Oil Extraction	1311 1320 1380	6 Crude Oil	
17	Stone and Clay Quarrying and Mining Chemical and Fertilizer Minerals Mining	1410 1420 1440 1450 1480 1490 1470	7 Nonmetallic Mining	
19	New Construction Maintenance Construction	1600 1500	8 Construction	
21	Guided Missiles and Space Vehicles	3761	44 Aerospace	
22	Ammunition, Except Small Arms	3483	28 Metal Products	
23	Tanks and Tank Components	3795	46 Other Transportation Equipment	
22 23	Small Arms Ammunition Other Ordnance and Accessories	3484 3482 3489	28 Metal Products	
27 28 29 30	 Meat Packing Plants, Sausage and Other Prepared Meats Poultry Slaughtering and Processing Dairy Products, Except Fluid Milk Fluid Milk 	2011 2013 2015 2021 2022 2023 2024 2026	9 Food and Tobacco	
31				
32		2033		
33		2041 2043 2045		
34		2047 2048		
ς % Έ	Nate Milling Wet Com Milling	2044 2046		
37		2051 2052 2053		

	National	SIC Classification		State Level
# pui	Industry Title	Classification Code(s)	sec#	Industrial Sector Title
38 39 40 42 42 44 44 45 47 47 47 48 49 40 50 50 50 50 50 50 50 50 50 50 50 50 50	Sugar Confectionery, Chocolate Products, and Roasted Nuts Beer, Malt Beverages, and Malt Wines, Brandy, and Brandy Spirits Distilled and Blended Liquors Soft Drinks and Flavorings Vegetable Oil Mills Animal and Marine Fats and Oils Shortening, Table Oils, and Edible Fats Roasted Coffee Miscellaneous Food Preparations Cigarettes Cigarettes Cichewing and Smoking Tobacco and Snuff Tobacco Stemming and Redrying Broadwoven Fahric Mills	2061 2062 2063 2084 2085 2085 2085 2086 2087 2074, 2075, 2076 2077 2079 2095 2110 2120 2130 2140		Food and Tobacco
55 55 57 57 57	Natrow Fabric Mills Natrow Fabric Mills Yarn and Thread Mills, Textile Finishers Carpets and Rugs Miscellaneous Textile Goods	2210 2220 2230 2261 2262 2240 2269 2281 2282 2284 2270 2290	10 F	Textiles (Except Knitting)
65 60 62 63 63 64 65 65 67 67 67 67 67 67 67 67 67 67 67 67 67	Apparel Household Textile Products Miscellaneous Fabricated Textile Products Logging Camps and Contractors Sawmills and Planing Mills Millwork and Wood Kitchen Cabinets Veneer and Plywood Structural Wood Members, n.e.c. Prefabricated Wood Buildings and Components Wood Preserving Wood Pallets and Skids Wood Containers Particleboard and Wood Products, n.e.c.	2300-2390 2391 2392 2393 2394 2395 2396 2397 2399 39996 2411 2421 2426 2429 2431 2434 2435 2436 2491 2448 2441 2449	12 A 22 Lu 22 Lu 13 Pa	Apparel and Household Textiles Lumber Paper
72 73 75 76	Household Furniture Office Furniture Public Building and Related Furniture Partitions and Fixtures Furniture and Fixtures, n.e.c.	2511 2512 2514 2515 2517 2519 2521 2522 2531 2542 2591 2599		Furniture
2	Puip Mills	2610	13 Pa	Paper

	National	SIC Classification		State Level
# pui	Industry Title	Classification Code(s)	sec #	Industrial Sector Title
78 79 80 81 81 82 83	Paper Mills, Including Building Paper Paperboard Mills Bags, Except Textile Bags Paperboard Containers and Boxes Paper Coating and Glazing, Die Cut Paper Envelopes and Stationery	2620 2630 2673 2674 2650 2671 2672 2675 2677 2678	13	Рарег
84 85 86		2679 2676 2710	14	14 Printing and Publishing
82 88 89 89 89 89 84 84 84		2720 2731 2732 2740 2752 2754 2759 2770 2791 2796 2782 2789	Y	
98 97		2812 2813 2816 2819, excl. 28195 2865 2869 2861	16	Other Chemicals
98 99 100 101 103 104 105		2873 2874 2875 2879 2891 2892 2893 2895 2899 2821 2822 2823 2823	15 16 16 16 16 16 16 16 16 16 16 16 16 16	
106 107 108 109	 5 Drugs 7 Soaps and Cleaners 8 Perfumes, Cosmetics, and Other Toilet Preparations 9 Paints, Varnishes, and Related Products 	2830 2841 2842 2843 2844 2850	91	Other Chemicals
110	Detroleum Refining, Except Fuel OilFuel Oil	2911 2917 2992 2999 2915	17	Petroleum Refining Fuel Oil
112 113 114 115	 Asphalt Paving and Coatings Tires and Inner Tubes Fabricated Rubber Products, n.e.c. Rubber and Plastics Footwear 	2951 2952 3010 3060 3020	17	Petroleum Refining Rubber Products

	National	SIC Classification	State Level
# pui	Industry Title	Classification Code(s)	sec # Industrial Sector Title
116	Rubber and Plastics Hose and Belting Gaskets, Packing, and Sealing Devices	3052 3053	19 Rubber Products
118		3080	20 Plastic Products
119 120 121 121	Leather Tanning and Finishing Boot and Shoe Cut Stock and Findings Footwear, Except Rubber Other Leather Goods	3110 3130 3142 3143 3144 3149 3150 3160 3171 3172 3199	21 Shoes and Leather
123		3229 3230	24 Stone, Clay, and Glass
126 127 128 129	Structural Clay Products Pottery and Related Products Concrete and Concrete Products Lime	3251 3253 3255 3259 3261 3262 3263 3264 3269 3271 3272 3273 3274	
130 131 132	Gypsum Products Cut Stone and Stone Products Nonmetallic Mineral Products, n.e.c.	3275 3280 3291 3292 3295 3296 3297 3299	
133	Steel Mills, Blast Furnaces, and Rolling and Finishing Mills	3312 3313 3315 3316 3317	25 Ferrous Metals
134 135 136	Iron and Steel Foundries Iron and Steel Forgings Miscellaneous Primary Metal Products	3320 3462 3398 3399	
137	Primary Smelting and Refining of Copper	3331, pt. 3341	26 Copper
138	Primary Smelting and Refining of Aluminum Lead, Zinc, and Other Primary Nonferrous Metals	3334 28195 pt. 3341 3339	27 Other Nonferrous Metals
140	Copper Rolling and Drawing Products	3351	26 Copper
141 142 143	Aluminum Rolling and Drawing Products Other Nonferrous Rolling and Drawing Products, and Nonferrous Wire Aluminum Foundries and Castings	3353 3354 3355 3356 3357 3363 3365	27 Other Nonferrous Metals
4	Copper Foundries	3366	26 Copper
145	Nonferrous Castings and Forgings	3364 3369 3463	27 Other Nonferrous Metals
146 147 148 149 150	Metal Cans Metal Shipping Barrels, Drums, Kegs, and Pails Metal Sanitary Ware and Plumbing Fixtures Heating Equipment, Except Electrical and Warrn Air Fabricated Structural Metal Products Fabricated Plate Work (Boiler Shops)	3411 3412 3431 3432 3433 3441 3442	28 Metal Products

	National	SIC Classification		State Level
# pui	Industry Title	Classification Code(s)	sec#	Industrial Sector Title
5	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	3445 3448 3440	28 Me	Metal Products
751	Sheet Metal and Other Metal Work	2100		
153	Screw Machine Products, Bolts, and Nuts	3430		
154	Automotive Stampings	3465		
155	Crowns and Closures	3466		
156	Metal Stampings, n.e.c.	3469		
157	Cutlery and Hand Tools	3421 3423 3425		
158	Hardware, n.e.c.	3429		
159	Metal Plating, Polishing, and Coating	3471 3479		
160		3497		
3 5		3495 3496		
191	Creek Chrings Excent Wire	3493		
7 7		3491 3492 3494 3498		
2		3499		
166	Chann Gas and Hudraulic Turbines	3511	29 En	Engines and Turbines
991		3519		
167	Farm Machinery and Equipment	3523	30 Ag	Agricultural Machinery
168		3524	1	
1			7	Constantion Mining and Oil Rield
169	Construction Machinery and Equipment	3531		Constitution, Minimis, and On 1 ice.
170	Mining Machinery and Equipment Except Oil and Gas		•	•
21	Machinery and Exp	3532		
171	Ċ	3533		
:			;	
172		3534	¥ 2	Other Nonelectrical Machinery
173		3535 3536		
174	Industrial Trucks, Tractors, Trailers, and Stackers	3537		
175	Machine Tools, Metal Cutting Types	3541	32 M	Metalworking Machinery
176		3542		
177		3544 3545		
178	Power-Driven Hand Tools	3546		
179		3547		
180		3549		
181	Food Products Machinery	3556	33 Sp	Special Industry Machinery
182		3552		
183		3553		
184		3554		
185	5 Printing Trades Machinery and Equipment	3555		
186		3559		
187	7 Purms and Compressors	3561 3563	34 O	34 Other Nonelectrical Machinery
188		3562		
189		3564		

ind #	National Industry Title		# 565	State Level	
190	Industrial Pattems	3543	34	Other Nonelectrical Machinery	
191	Рас)		
	Machinery, n.e.c.	3565 3569			
192		3566 3568			
193		3567			
194	Carburetors, Pistons, Piston Rings, and Valves Fluid Power Equipment	3592 3503 3504			
196	Scales and Balances	+000 0000	•	:	
?	Ovalos and Datamores	9666	36	Other Office Equipment	
197	Industrial and Commercial Machinery, n.e.c.	3599	34	Other Nonelectrical Machinery	
198	Electronic Computers	3571	35	Committees	
199 200	Computer Peripheral Equipment Calculators and Accounting Machinery	3572 3575 3577 3578	}		
201	Office Machines and Typewriters	3579	36	Other Office Equipment	
202	Automatic Merchandising Equipment	3581	37	Service Industry Machinery	
203	Commercial Laundry, Dry Cleaning, and Pressing		ò	of the contract of the contrac	
٠	Machines	3582			
204	Air Conditioning, Heating, and Refrigeration Equipment	3585			
205	Measuring and Dispensing Pumps	3586			
700	Service Industry Machinery, n.e.c.	3589			
207	Instruments to Measure Electricity	3825	39	Electric Industrial Appliances and	
900	Toward			Distribution Equipment	
907	Transformers	3612			
507	Switchgear and Switchboard Apparatus	3613			
710	Motors and Generators	3621			
211	Relays and Industrial Controls	3625			
212	Welding and Soldering Equipment Electrical Industrial Amarans	3548 3671 3670			
;		2069			
214 215	Major Household Appliances Other Household Appliances	3631 3632 3633 3634 3635 3639	40	Household Appliances	
216	Electric Lamps, Light Fixtures, and Wiring	3641 3643 3644 3645 3646 3647 3648	41	Other Electrical Equipment	
217	Household Audio and Video Equipment	3651	42	TV Sets Radios and Phonographs	
218	Prerecorded Records and Tapes	3652		r vets, reados, and r nonegraphs	
219	Telephones, Switchboards, Modems, Faxes, etc.	3661	38	Communications Equipment and Electronic	
220	Radio and TV Broadcasting and Communication			Components	
	Equipment	3663 3669			
221	Electron Tubes Semiconductors and Related Devices	3671 3674			
l j		1/00			

į	National	SIC Classification	State Level	
# pui	Industry Title	Classification Code(s) se	sec# Industrial Sector Title	or Title
223	Electronic Components, n.e.c.	3672 3675 3676 3677 3678 3679	38 Communications Equipment and Electronic Components	t and Electronic
224 225 226 227 227 228 229 230	Storage Batteries Primary Batteries, Dry and Wet X-ray and Irradiation Apparatus Electromedical and Electrotherapeutic Apparatus Engine Electrical Equipment Magnetic and Optical Recording Media Electrical Machinery, Equipment and Supplies, n.e.c.	3691 3692 3844 3845 3694 3699	41 Other Electrical Equipment	
231 232 233 234	Truck and Bus Bodies Truck Trailers Motor Vehicles and Passenger Car Bodies Motor Vehicle Parts and Accessories	3713 3715 3711 3714	43 Motor Vehicles	
235 236 237	Aircraft Aircraft and Missile Engines, Propulsion Units and Parts Aircraft and Missile Parts and Auxiliary Equipment, n.e.c.	3721 3724 3764 3728 3769	44 Aerospace	
238	Shipbuilding and Repairing Boat Building and Repairing	3731 3732	45 Ships and Boats	
240 241 242	Railroad Equipment Motorcycles, Bicyles, and Parts Travel Trailers and Campers	3740 3750 3792	46 Other Transportation Equipment	ment
243	Mobile Homes	2451	22 Lumber	•
244		3716		
245	Transportation Equipment, n.e.c.	3799	46 Other Transportation Equipment	ment
246 247 248	Search and Navigation Equipment Laboratory Apparatus and Furniture Measuring Devices and Environmental Controls	3812 3821 3822 3823 3824 3829	47 Instruments	
249 250 251	Surgical and Medical Instruments Surgical Appliances and Supplies Dental Equipment and Supplies	3841 3842 3843	80 Medical Instruments and Supplies	pplies
252 253	Watches, Clocks, Clockwork-Operated Devices, and Parts Laboratory and Optical Instruments	3870 3826 3827	47 Instruments	
254	Ophthalmic Goods	3850	81 Ophthalmic Goods	
255	Photographic Equipment and Supplies	3860	47 Instruments	
256 257	Jewelry, Precious Metal, Silverware, and Plated WaresMusical Instruments	3911 3914 3915 3930	48 Other Manufacturing	

	National	SIC Classification		State Level
# pui	Industry Title	Classification Code(s)	sec#	Industrial Sector Title
258 259 260 261 262	Games, Toys, and Play Vehicles Sport and Athletic Goods, n.e.c. Pens, Pencils, and Other Office and Artists' Materials Costume Jewelry and Notions Manufacturing, n.e.c.	3942 3944 3949 3951 3952 3953 3955 3961 3965 3991 3993 3995 3996	48	Other Manufacturing
263	Railroads	4000 4740 pt. 4789	49	Railroads
264 265	Local and Suburban Passenger Transportation Trucking and Warehousing	4100 4200 pt. 4789	20	Trucking and Highway Passenger Transit
266	Water Transportation	4400	51	Water Transportation
267	Airlines	4500	52	Air Transportation
268	Pipelines	4600	53	Pipeline
569	Transportation Services	4700	54	Transportation Services
270 271	Telephone and Telegraph Radio and TV Broadcasting	4800 -4830 4830 .	55	Communications Services
272	Electric Utilities	4910 pt 4930	26	Electric Utilities
273	Natural Gas	4920 pt 4930	57	Gas Utilities
274	Water, Sewer, Steam, and Irrigation Services	4940 4950 4960 4970 pt 4930	28	Water and Sanitation
275	Wholesale Trade	5000 5100	59	Wholesale Trade
276	Retail Trade	5200 5300 5400 5500 5600 5700 5900	8	Retail Trade
777	Eating and Drinking Places	5800 pt 7000	19	Eating and Drinking Places
278 279 280	Banking Credit Agencies Other Than Banks Security and Commodity Brokers, Dealers, Exchanges, and Services	60 61 67 -6732 62	62	Finance and Insurance
281	Insurance Carriers Insurance Agents, Brokers, and Services	64		
283	Owner-Occupied Dwellings	No SIC	\$	Owner-Occupied Housing
284	Real Estate Royalties	6500 6600 1531 I-O sector, but no SIC	63	Real Estate
286	Hotels, Rooming Houses, Camps, and Other Lodging Places	7000	65	Nonautomotive Repair Services, Hotels, and Lodging
107		1200 1620 1630 1640		
588	Personnel Supply Services	736	99	Research Labs, Computer and Engineering Services

	National	SIC Classification		State Level
# pui	Industry Title	Classification Code(s) see	sec#	Industrial Sector Title
289	Computer and Data Processing Services	737	96 S. S.	Research Labs, Computer and Engineering Services
290 291 292	Research Laboratories and Management Consulting Equipment Rental and Leasing Services Advertising	8731 8732 8734 8740 7350 7310		
293 294	Other Business Services Legal Services	7320 7330 7340 7380 7390 7690 8110		
295	Engineering and Architectural Services Other Professional Services, Including Accounting	8710 8720 8900		
297 298	Auto Rental and Leasing Auto Repair and Services	751 75 other	9 L9	Automobile Repairs
299	Motion Pictures	78, exc. 7840	¥ 89	Movies and Amusements
300	Video Tape Rental	7840	66 R S	Research Labs, Computer and Engineering Services
301	Amusements and Recreation Services	7910 7920 7930 7941 7948 7990	89 N	Movies and Amusements
302	Private Hospitals	908	82 P	Private Hospitals
303	Physicians, Excluding Dentists	801 803	83 P	Physicians
304	Dentists and Miscellaneous Medical Services	0740 8020 8041 8043 8048 8070 8080	2 8	Other Medical Services
305	Nursing Homes	805	85 N	Nursing Homes
306 307 308 309	Education and Libraries Social Services Museums, Nonprofits, Research, and Private Education Membership Organizations	82 83 84 8650 8690 8733 6732 86	Э 69	Education and Nonprofit Organizations
310	United States Postal Service	4311	70 F	70 Federal, State, and Local Government Enterprises
311	Federal Government Enterprises State and Local Government Enterprises	No SIC No SIC		
317	Government Industry Compensation	No SIC) 9/	Government Industry Compensation

FEEDBACK FORM

	· · · · · · · · · · · · · · · · · · ·	missing items?
Do the projection	ons for your industry or state seem to be reason	able?
Are there other can be compared	published forecasts with which the projections d?	for your industry or st
 		
Which projection	ons are most and least useful to you?	
Which projection	ons are most and least useful to you?	LEAST
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5.	Comments on the format of the	e tables in this report:	
OPTIC	ONAL		
	Name	<u> </u>	
	Title		
	Company		
	Address		
	City	State	Zip

Return to:

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Office of the Director, Program Analysis and Evaluation
Office of the Secretary of Defense
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